



Office of
Environment
& Heritage

Atlas User Manual

(covering the **Atlas sightings**, **Search**, **Import spreadsheet**, **Codes**
and **Species** menus)

for OEH Staff

Version 1.3

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1. Introduction

This manual provides a step by step guide for OEH staff to access and submit sightings in the Atlas of NSW Wildlife Database.

The manual covers the following modules available through the Atlas of NSW Wildlife web-based application:

- **Search** – search on existing sightings to create reports and maps.
- **Import spreadsheet** - submit non-survey datasets via a standard spreadsheet for import into Atlas.
- **Atlas sightings** – enter new sightings and open existing sightings.
- **Codes** – view all values associated with individual Atlas codes (e.g. Observation type).
- **Species** – view taxonomic details for fauna and flora species.

Please note that separate manuals are available for the;

- **Fauna Survey** module
- **VIS Flora Survey** module, and
- **TS Profiles** module (restricted to use by relevant OEH staff).

2. Background

2.1 What is the Atlas of NSW Wildlife?

The Atlas of NSW Wildlife (Atlas) is the Office of Environment and Heritage's (OEH's) corporate database of flora and fauna records. It serves as the portal for supplying NSW government-held information to biodiversity informatics initiatives, such as the Commonwealth's Terrestrial Ecosystem Research Network (TERN) and the Atlas of Living Australia (ALA). The Atlas contains sightings of plants, mammals, birds, reptiles, amphibians, some invertebrates (generally those threatened in NSW), some fungi (generally those threatened in NSW) and some fish. Essentially any species that has been taxonomically described can be included.

The Atlas database comprises a number of modules including the Fauna Survey module and the VIS Flora Survey module (previously known as "YETI"). The VIS Flora Survey module is one of the components of OEH's distributed Vegetation Information System (VIS). The other components of the VIS are physically separate from the Atlas, and include VIS Map Catalogue, and VIS Classification (previously the NSW VCA database).

The Atlas database has existed in various formats since the 1980's. It was originally developed by the NSW National Parks and Wildlife Service (NSW NPWS) to store vascular flora and vertebrate fauna sightings recorded by NPWS staff and also store unusual sightings reported from members of the public. The Atlas covers all of NSW and may include some records from neighbouring states, though it is not a comprehensive inventory of all species, or all locations of species in NSW.

2.1.1 Where does all the data come from?

Background

Data comes to the Atlas from a variety of sources. It is important to distinguish between the various categories of data so that OEH staff are accessing the most appropriate data for their needs, and as an Agency, we are not breaching any licensing conditions we have with other organisations.

Categories of data

There are 2 distinct categories of data within the Atlas.

a. Unrestricted data (i.e. data that OEH are authorised to distribute to **external** clients in accordance with OEH policy);

- survey sightings records from the Atlas's in-built flora and fauna survey modules
- records from consultants, research scientists and others as part of the Scientific Licence procedure
- incidental sightings records from the public, and
- records from other custodians including the National Herbarium of NSW, the Australian Museum, Forests NSW, NSW Fisheries and the Australian Bird and Bat Banding Scheme that have licensed OEH to distribute their data.

b. Restricted data (i.e. data obtained under licence from other organisations, restricted to internal use by OEH staff only)

In addition to data that OEH are custodian of, we also obtain records from other organisations or individuals under a Licence agreement which prevents us from passing the data outside of OEH. Restricted datasets generally include data from neighbouring State Agencies (where the records predominantly occur outside of the NSW boundary), some non-government organisations and some smaller private collections.

The scientific licence procedure

To carry out a flora or fauna survey in NSW, a Scientific Licence needs to be entered into between the surveyor and OEH (Section 132(C) of the *National Parks and Wildlife Act 1974* (NPW Act)), for:

- fauna surveys, where there is the potential to harm protected species, either directly, e.g. through the use of sampling devices such as traps or hair tubes or indirectly e.g. through the accidental transfer of disease into frog habitats.
- flora surveys, where samples are taken from protected plants (listed under the Schedules of the NPW Act) or from threatened flora species, endangered populations or endangered ecological communities (listed under the schedules of the *Threatened Species Conservation Act 1995* (TSC Act)).
- surveys proposed on lands gazetted under the NPW Act or within critical habitat declared under the TSC Act.

It is a condition of this licence that a full report of **all** species records collected during surveys is provided back to OEH for inclusion into the Atlas database. Where the area to be surveyed is on private land, it is the responsibility of the person who has signed the Scientific Licence intending to carry out the work, to inform the landholder of this condition. No other clauses can over-rule this agreement (e.g. after signing a scientific licence, the licensee cannot argue that they are bound by a confidentiality agreement with a landholder which prevents them from passing survey data on to OEH). Note that some surveys such as bird surveys are non-invasive and therefore will not require a Scientific Licence, though such surveys that include call playback probably will.

Part 1 of the *Reporting requirements* of the Scientific Licence lists the required details and format to record sightings, as well as the process by which records must be submitted.

Scientific Licence Reporting Requirements (Part 1)

It is a requirement of all S132c licences issued that a full report of the actual work carried out under licence be submitted at the end of the licensing period and before any renewal will be granted. The report must include;

- (a) details of **ALL** animals, plants, materials or activities, collected, captured, observed or undertaken under the licence including
- (b) species identification
- (c) precise locality description
- (d) **precise geographic coordinates** (AMG/MGA or latitude/longitude) including datum, accuracy and whether a GPS was used), and
- (e) **date** of trapping, observation or collection.
- (f) A list of locations surveyed (including geographic coordinates) must be included for those licences authorising flora and fauna surveys
- (g) Data must be provided at an **accuracy of not less than 100m** without suitable justification.
- (h) Reports must be in the **standard OEH excel format**, available at <http://www.environment.nsw.gov.au/resources/Atlas/AtlasDatasheet.xls>
- (i) Completed reports are to be **uploaded online, under a secure login**. Contact atlas@environment.nsw.gov.au for account details and guidelines.
- (j) Failure to submit a valid and full report will delay or prevent the renewal of a licence and may also incur an infringement notice for a breach of licence conditions (\$300).
- (k) Failure to submit a report may be considered sufficient grounds for cancelling a licence.

Scientific licensing is managed by the Wildlife Licensing and Management Unit (WLMU) and is a separate agreement from the Atlas of NSW Wildlife Data Licences.

More information on the Scientific Licence conditions can be found at: www.environment.nsw.gov.au/wildlifelicences/ScientificResearchLicences.htm

Process for checking that data collected under scientific licence has been supplied for inclusion into Atlas

The WDU maintain a log of all digital files received for inclusion into Atlas. This includes the Scientific Licence number, name of person forwarding the files, date of supply and number of records. Details of files received will be periodically forwarded to WLMU to assist WLMU in processing Licensing renewals.

The current process does not guarantee that *all* records collected under licence will have been supplied, so OEH staff are therefore encouraged to notify WDU of any reports that you come across (e.g. environmental impact assessments) where some or all of the records do not appear to be in the Atlas. WDU can check to see if the data has been supplied and WLMU can confirm whether a Scientific Licence has been issued, or decide on the appropriate action.

2.1.2 Limitations

When accessing data from the Atlas, it is important to be aware of the limitations of the data.

The Atlas is not comprehensive

Data in the Atlas, while extensive, is by definition patchy and as such will not provide you with the full distribution of a species. Except in areas where comprehensive survey information has been incorporated into the database, the search results for a particular area are based on a mix of reported sightings.

Data collection is often biased

Some areas are particularly poorly represented e.g. there are relatively few records for flora species in western NSW, and there are relatively few records across the state for fauna or flora sightings on private land. Sightings may follow patterns of human movement, such as along roads, and contributors (not bound by the requirements of a Scientific Licence) can often focus their efforts on recording threatened or rare species. As a result common and introduced species can be under-represented.

Data is not necessarily an accurate representation of current abundance

It is important to realise that the number of recorded sightings for a species does not necessarily correspond to the actual abundance of that species in NSW. A lack of sightings of a species at a particular location does not necessarily indicate its absence, just the same as multiple records of a species at a location doesn't necessarily mean the species is abundant (e.g. could be a single plant recorded on multiple dates by different people, with slightly different coordinate readings).

Records are a mix of both historical and current data, and as such, are not intended to be a current snapshot for an area or species.

The accuracy of individual locations vary

Due to the differing methods used to collect records, there is variation in the accuracy of the location at which records are collected. The locations of some species are collected via a GPS and will therefore be accurate to 10 to 50 metres. While some records collected outside of the Scientific Licence process (such as species lists for properties, or historical records from published documents) can be quite coarse.

The Atlas database does not contain certain types of information

- The Atlas is a database of the *presence* of individual species so does not record or report on species absence (except for survey sites recorded in the survey modules of Atlas), and
- With the exception of records that are tagged as being part of an Endangered Population, information on entities other than species (i.e. threatened ecological communities and key threatening processes) are stored in the TS Profiles module of Atlas. While these details are available via the Search module, individual records of communities and threatening processes cannot be entered.
- Critical habitat is not contained in the Atlas. The spatial layer for Critical Habitat is available via P drive (for staff) and via the [OEH data download site](#) (for those external to OEH).

The Atlas is not guaranteed to be free from errors

The Atlas may contain errors. If you suspect an error in any Atlas record, please notify the WDU by supplying the *Unique Sighting Key* and details regarding the questionable field (e.g. species name, location description/coordinates).

Limitations with datasets acquired under licence from other Agencies (i.e. mostly 'restricted' datasets – refer to [Section 2.1.1](#))

There are a few issues to be aware of regarding some restricted datasets:

- These datasets bypass the validation process that internal records are subject to. This is simply because we are not resourced to validate data from other agencies, and would expect other agencies to be responsible for validating their own data, as we do our own.
- Data acquisition is generally not frequent. With the exception of Forests NSW, who are under obligation to supply an update of their data every three months, most datasets from other agencies are obtained on an ad hoc basis. Due to the less

stringent data entry requirements for some fields in other datasets, import of these files into Atlas is not instantaneous as it generally requires considerable work to format the data appropriately for the Atlas.

- The accuracy of the locations of records, in some datasets, can be quite coarse. The Birdlife Australia *Royal Australasian Ornithologists Union (RAOU)* dataset, for example, was collated in 10 minute grid cells resulting in records having an accuracy of approximately sixteen kilometres.

2.1.3 Access to data in the Atlas system

Sensitive Species Data Policy and the *GIPA Act*

Access to data held in the Atlas system is governed by:

- The *Government Information (Public Access) Act 2009* (GIPA Act).

Under this Act all government-held information should be accessible to the public and information should only be withheld if it is necessary to do so in the public interest.

- OEH's Sensitive Species Data Policy.

"Sensitive" species are those threatened flora and fauna species which are identified under the [Sensitive Species Data Policy](#) as being particularly sensitive to threats such as collection or disease. Precise locational data for sensitive species is not made publicly available by OEH, and this information is exempt from disclosure for the purposes of the GIPA Act.

Restrictions on release of personal information

As a public sector agency, OEH is bound by the *Privacy and Personal Information Act 1998* (NSW). Contributors providing sightings records are asked for personal details, to allow checking and verification of sightings records, but OEH does not release sighting observer details to third parties.

This restriction does not apply to survey datasets stored in the VIS Flora Survey module and Fauna Survey module, where observer names are available to clients with an Atlas login, and contributors are reasonably likely to be aware that this information might be disclosed.

2.2 Governance and accountabilities

2.2.1 Who to contact

WDU's role is primarily the day-to-day management of the Atlas, which covers the maintenance, importation, validation, licensing and supply of data. Our role is **not** to manually enter records for staff or run queries that can be achieved through the existing application. Some of our individual responsibilities are listed in Table 1.

Table 1 – Wildlife Data Unit responsibilities

Position	Responsibilities	Phone
Manager	<ul style="list-style-type: none"> • Policy issues. 	02 9585 6977
Senior Wildlife Data Officer	<ul style="list-style-type: none"> • High level database maintenance. • New accounts for OEH staff to access Atlas. 	02 9585 6694
Wildlife Data Officer (Data Exchange)	<ul style="list-style-type: none"> • New accounts for licensed users to access Atlas. • Creation of data licence agreements. • Data exchange for some licensed Atlas users. • Advice for supply of data to licensed users and OEH contractors. 	02 9585 6684

Wildlife Data Officer (Threatened Species)	<ul style="list-style-type: none"> • Updates to species legal status in line with changes to legislation; updates to Sensitive Species list. • Coordinate data imports. • Coordinate Atlas User training. • New accounts for OEH staff to access Atlas. 	02 9585 6688
Wildlife Data Officer (Quarantine)	<ul style="list-style-type: none"> • Review of all non-threatened species records held in Quarantine. • Update of non-threatened species accepted distribution boundaries. • New accounts for OEH staff to access Atlas. 	02 9585 6693
Wildlife Data Officer (Data Imports)	<ul style="list-style-type: none"> • Import of digital datasets supplied under licence from clients external to OEH. 	02 9585 6641

We can also be contacted by a share e-mail at atlas@environment.nsw.gov.au.

2.2.2 Specific procedures

The following is an outline of specific procedures and responsibilities in relation to non-survey Atlas data. Further details are provided in the relevant sections throughout this manual.

Data entry (overview)

Data entry is the responsibility of the OEH officer who collected the data. Staff can choose to either enter non-survey records manually into the Atlas, or complete the [Atlas spreadsheet](#) and submit the file themselves for import via the Import Spreadsheet option. Survey records need to be entered into the relevant survey modules.

Summary

- Staff are responsible for entering their own records.

Data entry (imports)

Non-survey data can be entered into the standard [Atlas spreadsheet](#) and uploaded directly into Atlas via the Import Spreadsheet menu. This process requires users to validate their own records, ensuring that the correct species name is entered, that coordinates and location description match, and that all other fields are populated accurately. Spreadsheets will not be accepted by the database until they pass all required validation checks.

WDU will provide support (as necessary) for users submitting their data for import, and is responsible for final data validation checks.

Summary

- Staff can submit any non-survey data via the **Import spreadsheet** menu.
- Spreadsheets will not be accepted for import until they have passed all required validation checks.

Data entry (manual)

Non-survey data can also be entered manually from standard Atlas cards or sheets (available from WDU). The unique sighting and location keys, which are assigned after entry, should be recorded on the card/sheet to allow for ease of reference in future.

The *Privacy and Personal Information Protection Act 1998 No 133* affects the storage of records from the Atlas database. All hard copy records containing personal information of the observer need to be stored in a securely locked storage system (either locally, or forwarded to WDU in Hurstville).

Summary

- Staff can manually enter non-survey data from standard cards/sheets.
- WDU are to provide access to standard Atlas cards/sheets upon request.
- Unique sighting keys to be recorded on hard copy cards/sheets and stored securely.

Data validation

While WDU are ultimately responsible for the maintenance of records within the Atlas, it is the responsibility of the person who made the sighting to ensure that care is taken to record and enter their records as accurately as possible. This involves care with the correct species name, ensuring coordinates and location description match and all other fields are populated accurately.

Summary

- Staff entering records are responsible for ensuring accurate data entry.
- WDU are responsible for overall data validation.

Quarantine

The Quarantine section of the database (discussed in further detail in [Section 5.4](#)) is a repository for records that have failed the systems' automatic in-built validation checks. The responsibility of reviewing and editing records is as follows:

- OEH Threatened Species Officers (TSO's) are responsible for reviewing and editing threatened species records held in Quarantine and updating the distribution maps, as they review specific species.
- The Wildlife Data Officer (Quarantine) in WDU is responsible for reviewing all other records in Quarantine and reviewing and updating the distribution maps as appropriate.
- If an OEH staff member notices that records they enter are saved to the Quarantine area, they have the option to contact WDU with details of the sighting (including the Sighting Key). This will then be reviewed and actioned by the Wildlife Data Officer (Quarantine) or Wildlife Data Officer (Threatened Species), as appropriate.

Summary

- OEH TSO's are responsible for reviewing threatened species records held in Quarantine and updating accepted distribution maps.
- Wildlife Data Officer (Quarantine) is responsible for reviewing all non-threatened species records held in Quarantine and updating accepted distribution maps.

Erroneous records

Staff who suspect an error in any Atlas record they review (such as a discrepancy between location description and coordinates, a questionable species identification or any other typos) are asked to notify WDU by supplying the;

- a) unique Sighting key,
- b) field in error,
- c) recommended value, and

d) rationale/supporting information for suggested change (e.g. obvious typo, you have received confirmation from the observer etc).

This ensures the review done by one staff member does not need to be repeated multiple times by other staff members or external clients of Atlas data.

Summary

- OEH staff to notify WDU of suspected errors.

Missing data collected under scientific licence

While WLMU liaise with WDU when renewing a Licence to ensure that the Licence holder has submitted data for the previous year, this does not necessarily ensure that **all** records have been supplied.

OEH staff who review reports from external clients (e.g. environmental impact assessments), may notice from time to time absences (or inconsistencies) against those records held in Atlas. In these cases, you are asked to contact WDU to follow up. The WDU maintain a log of all incoming digital files of species sightings supplied to OEH. This includes the Scientific Licence number, name of the company, name of person forwarding the files, date of supply and number of records. WDU can check to see if the data has been supplied and WLMU can confirm whether a Scientific Licence has been issued, or decide on the appropriate action.

Summary

- OEH staff to contact WDU regarding inconsistencies between data from environmental reports and that held in the Atlas.

Sourcing new datasets

Staff interested in obtaining datasets of sightings from other organisations/individuals, which are not currently contained within the Atlas, are asked to liaise with WDU in the first instance to determine whether the data can feed into the Atlas. This is to potentially avoid wasted resources (by multiple staff chasing up all, or parts, of the same dataset), to attempt to ensure the data can be made available to all staff via Atlas and also ensure the most appropriate fields and metadata are obtained at the outset.

Summary

- OEH staff to liaise with WDU staff prior to obtaining new datasets, to determine feasibility of including new data into Atlas.

Data provision

The Data Exchange Officer is responsible for the licensing of data to external clients and supplying sighting information when necessary. The only time that it is appropriate for OEH staff to provide data is when staff have employed a contractor for a specific project.

Prior to running searches in the Atlas, all staff are required to have read [Section 6.1](#) on Data Licensing to understand the responsibilities and restrictions around supply of Atlas sightings. This includes restrictions on use and mapping scale of records, the [Sensitive Species Data Policy](#) and fields such as observer name which are not available outside of OEH.

Summary

- Only the Data Exchange Officer (within WDU) can organise Atlas licences and provide access to Atlas records for clients outside of OEH.
- OEH staff are to read and understand [Section 6.1](#) on Data Licensing.

- OEH staff who employ contractors are responsible for making the data available in line with the conditions set out in [Section 6.1.5](#).

Species codes

WDU are to create new species codes as necessary and to ensure that species codes reflect changes to NSW and Commonwealth Legislation and the Sensitive Species Data Policy.

Where the TSC Act references outdated taxonomy, the current Atlas code will reflect that listed on the TSC Act, until the Scientific Committee amend the listing.

Summary

- WDU to create new species codes as requested.
- Atlas species codes reflect State and Commonwealth legislation and Policies.
- Atlas naming protocol follows the TSC Act.

Maintain Atlas as OEH's corporate dataset.

The Atlas is part of OEH's corporate dataset, the Atlas of NSW Wildlife, which will be resourced in perpetuity. As such, any additional internal datasets/databases that do not have long term resourcing, should be fed into the Atlas and all edits and additions be maintained in the Atlas.

OEH staff are asked to provide advice/feedback to WDU regarding any future needs to incorporate additional information/fields into the Atlas.

Summary

- OEH Staff to treat the Atlas as OEH's corporate fauna and flora database.

Support and training

WDU are to assist OEH staff with data entry and running of searches as necessary. Note that this does not involve WDU doing the work for staff that can be met through the existing Atlas application. WDU are to run training courses for OEH staff as necessary.

Summary

- WDU to provide ongoing support and training for OEH staff as requested.

3. Apply for login access

OEH staff should request access by e-mailing the [WDU](#). It is important that staff obtain a staff login, in order to access the more complete and accurate data only available for internal OEH use.

3.1 Levels of access

The Atlas system has different levels of user access, as described below.

3.1.1 General Public access (no login required)

The majority of the data held in Atlas is made available to the general public by OEH, via the BioNet-Atlas, VIS and Threatened Species websites. However data from restricted datasets (i.e. datasets provided to OEH for internal agency use only), precise location information for “sensitive” species, and observer names for sightings, are not publicly disclosed:

- In the public **Atlas search** module, records for category 2 sensitive species are denatured to 0.1 degrees (~ 10km); records for category 3 sensitive species are denatured to 0.01 degrees (~ 1km). Location description notes are not provided.
- In the public **VIS Flora survey** module, records for category 2 and 3 sensitive species are withheld.
- There is no public access to the Fauna survey module to query the underlying site information, although the Search module will return all relevant species records contained in the Fauna survey module.

3.1.2 Registered Public access

Members of the public who do not require access to precise locational information for sensitive species, but who require access to some of the more specialist functions of the Atlas system, may register for non-licensed login access. Registered users can:

- Access the **Import spreadsheet, Species** and **Codes** modules, in order to upload sightings spreadsheets (for example to fulfil Scientific Licence requirements).
- Query the **TS profiles** module, which contains profiles of threatened species, populations and communities and information about key threatening processes. This information is also available, without login, via the public Threatened Species and BioNet –Atlas websites.
- Access the **Data Analysis function of the VIS Flora Survey module**, to export data and carry out data analysis.

3.1.3 Access for clients who hold an Atlas Data Licence

Parties who hold an Atlas Data Licence are provided with licensed login access to the database. The Atlas Data Licence is renewed annually and user access permissions are checked and updated at this time. There are two categories of licensed clients:

(a) General

- Clients have access to all the modules available to registered users i.e. Atlas Search, VIS Flora survey (including Data Analysis), Import spreadsheet, Codes, Species and TS profiles.
- In addition, clients have access to the **Fauna survey** module.
- In the Atlas Search module, location notes are available except for records of category 2 sensitive species.

- Records for category 3 sensitive species are available at 'as-held' accuracy in the sightings and survey modules; and location description notes are available for these species.
- Records for category 2 sensitive species are denatured to 0.01 degrees (~ 1km) in the Search module, and location description notes are withheld for these species.
- Records for category 2 species are not available in the survey modules (which record multiple species at a single site).
- No observer details are available in the sightings module; observer information is available in the survey modules.

(b) Licensed users with survey data entry rights

Users who, in addition to holding an Atlas Data Licence, have been assigned survey data entry/edit rights (linked to login) pursuant to signing an Atlas Survey Data Provider Agreement.

Conditions as for General licensed users, as well as:

- clients are authorised to enter survey data into the VIS Flora Survey and Fauna Survey modules.
- clients have access to records for category 2 sensitive species at 'as-held' accuracy in their own survey datasets.
- clients have edit rights to their own survey datasets*

*note that clients do not have data entry/edit rights for observer information. Due to privacy issues, the observer table is maintained by the Atlas system administrator.

3.1.4 OEH staff

All OEH staff are able to obtain a staff login to Atlas, by emailing the WDU. An OEH staff login enables staff to access data which is not released to external clients, including 'restricted' datasets provided for internal agency use only, and 'as-held' coordinates for records of sensitive species. There are three levels of access for OEH staff:

a. OEH General

- OEH staff can search on all available records and have edit access, which allows entry of new sightings and edits to existing sightings within the *OEH Default Sightings* dataset.

b. OEH TS Profiles

- In addition to OEH general access, Threatened Species Officers have edit access to the TS Profiles module

c. OEH Admin

- Restricted to WDU who have edit access across all Atlas menus

4. Getting started

4.1 How to login

- Once you have received account access (from [WDU](#)), go to the Atlas website located at: <http://environment.nsw.gov.au/AtlasApp>

Alternatively, you can access the Atlas login screen by selecting **Wildlife Atlas** from the **Business tools** drop-down menu on the **EHub** homepage.

You will then be directed to OEH's online security portal (as shown below).

NSW GOVERNMENT | **Environment & Heritage**

[Skip links](#) | [Contact us](#) | [Help](#) | [A-Z index](#)

Keyword search

Quicklinks

HOME | **ENVIRONMENTAL ISSUES** | **CLIMATE CHANGE** | **SUSTAINING OUR ENVIRONMENT** | **NATURE CONSERVATION** | **CULTURE AND HERITAGE** | **VISITING A PARK** | **KNOWLEDGE CENTRE** | **ABOUT US**

● Application log in

Please log in

To log in to your application, please enter your credentials and click Login.

User name

Password

For your information

For more information, to obtain a login, or if you are experiencing difficulties logging into or using these applications, contact:

- **Atlas of NSW Wildlife, including VIS Flora Survey**
Non-OEH staff can [apply for a data licence](#)
Licensed users and OEH staff can [email the Wildlife Data Unit](#)
- **Hunter River Salinity Trading Scheme**
EPA Newcastle: hrsts@environment.nsw.gov.au
- **RID Squad database**
Sustainability Programs Division:
sustainability@environment.nsw.gov.au
- **Savings Action Plan reporting system**
Water and Energy Programs Branch:
saving.action@environment.nsw.gov.au
- **Smoky or littering reporting system**
Regulatory and Compliance Support Unit:
compliance.services@environment.nsw.gov.au
- **Waste tracking**
the Waste Operations Section:
hazardouswaste@environment.nsw.gov.au
- **Waste data system**
the Waste Levy Team:
WasteHelp@environment.nsw.gov.au
- **Waterwatch**
nsw.waterwatch@environment.nsw.gov.au

or phone (02) 9995 5000.

Please note;

- Your login name and password are the same as your standard network login.
- You will need to ensure you prefix your network login with **DECI**.
- Your user name is not case-sensitive, but your password is.
- If you are ever prompted to update your network password, the next time you login to Atlas you need to use your updated password.

Please log in


To log in to your application, please enter your credentials and click Login.

User name


Password

- Enter your **user name** and (network) **password** and click on the button.

The following Atlas homepage will appear, providing you access to various modules via drop-down menus.



Office of Environment & Heritage



the website for the Atlas of NSW Wildlife

[Home](#)
[Search](#)
[Import spreadsheet](#)
[Atlas sightings](#)
[Fauna survey](#)
[VIS flora survey](#)
[Codes](#)
[Species](#)
[TS profiles](#)
[Logout](#)

59:46

Reset timer

Licensed Users and OEH staff:

If you have logged in as a licensed user, or as an OEH staff member, you will have access to information which is not made publicly available. Staff must use this confidential information in accordance with OEH's [Sensitive Species Data Policy](#); licensed clients must use the information in accordance with their Atlas Data Licence.

Registered Users:

If you have logged in as a Registered user, you will have access only to information which OEH has made publicly available. If you require more detailed location information for sensitive species than is publicly available, you can [apply for an Atlas Data Licence](#) (conditions apply).

Links to user manuals:

[Overview of Atlas system](#)
[Atlas](#)
[Fauna Survey](#)
[VIS Flora Survey](#)

[NSW Government](#) | [jobs.nsw](#)
[Accessibility](#) | [Privacy](#) | [Copyright](#) | [Feedback](#)

4.2 How to logout

Once you have finished with your Atlas session, you can either;

- close the Windows Internet Explorer session (as you would any internet session) and you will be logged out automatically, or
- click on the **Logout** menu



You will then be re-directed back to the OEH online security portal login page.

Note that if, after logging out, you subsequently login, you will be directed to the following **My applications** page listing all the applications that you have access to.



HOME	ENVIRONMENTAL ISSUES	CLIMATE CHANGE	SUSTAINING OUR ENVIRONMENT	NATURE CONSERVATION	CULTURE AND HERITAGE	VISITING A PARK	KNOWLEDGE CENTRE	ABOUT US
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My applications

My details

Change my details

Change password

My login history

Logout

▶ My applications

User ID dec/sherraj

User name Sherratt Jenny

Atlas - Atlas

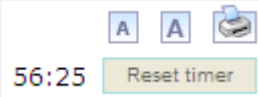
[Atlas](#)


- Click on the [Atlas](#) link button to be directed to the Atlas homepage.


4.3 Useful buttons and warning advice


Figure 1 contains useful tips when using the application, while Figure 2 contains warnings for issues you may encounter.

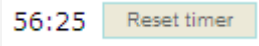
Note the group of buttons under the **Logout** menu.




 allows you to reduce the font size.

 allows you to increase font size.

 allows you to print the screen.

 This timer relates to the secure login software that you need login to, to be able to access Atlas. Certain processes (such as saving information) send a message to the server and the timer is automatically reset for another 60 minutes. To avoid losing half entered work, prior to the 60 minute timer expiring, you can click on this **Reset timer** button at any time to refresh the timer for another 60 minutes.

Throughout the application:

 **Help** hot-links are displayed for some fields. Click on the help hot-link to display a pop-up containing advice on selecting values in a particular field.

The percentage sign (%) is the **wildcard**. Entering the % value into any search field will return all available values. Warning that for some fields, this can return a large number of results and therefore may be quite slow.

Figure 1 - Useful buttons and keys

Browser environment and operating systems

The Atlas application was built for optimal performance using IE v8 and IE v9 on Windows XP. The functionality of the Atlas application using alternative browsers or operating systems may be patchy. Unfortunately the submit function under then **Import spreadsheet** menu option does not currently work at all using **Firefox**.

In **Firefox**, **Chrome** and **Opera** pressing the **Enter** key will attempt to save/submit your entries before you are ready to. For example, in the **Search** menu, if you are entering fields to search on and you click the **Enter** key before selecting all of your criteria, the system will attempt to submit the search. Use the **Tab** key to move between cells (**Tab** to move to the next sequential cell, and **Shift** and **Tab** to move backwards), or use your mouse to click in the cells as necessary.

Back arrow

Clicking on your browsers back arrow button may kick you out of the current Atlas session.

Mapping help

To view any maps (in the **Search**, **Import Spreadsheet** and **Species** menus) ensure you have [Adobe Flash](#) installed. To print maps in pdf format, you will need [Adobe pdf reader](#).

Figure 2 - Warning advice

5. Data entry

5.1 Background to different types of records

How a record was collected will dictate how it will be entered into the database. Data are collected in either of two general formats; non-survey or survey.

5.1.1 Non-survey data

Non-survey data refers to anything from a one-off sighting to a species list compiled for a park or property. All non-survey data is entered via the **Atlas sightings** menu. At an absolute minimum, all records will need to have the following information:

- species name
- date of observation
- location details
- observer name, and
- observation type (for fauna only).

However there are many more fields for which information can be attributed for an individual record.

5.1.2 Systematic survey data

Some additional modules have been incorporated into the Atlas to allow for the recording of additional records and fields collected through systematic surveys.

Fauna survey data

Fauna data collected from systematic surveys is entered into the **fauna survey module**. While systematic survey data can include a range of additional information such as additional location information and details of species weight/measurements etc, what sets it apart from non-survey data is the recording of **survey effort** (i.e. number of traps per night; number of people hours involved) and the **ability to infer negative data** (i.e. absence data or sites where sightings were *not* made). Refer to the Fauna Survey module user manual for further details.

Flora survey data

Flora data collected from systematic surveys is entered into the **VIS flora survey module**. Historically flora survey data was stored in a series of stand-alone Access databases (known as YETI). Refer to the VIS flora survey module user manual for further details.

5.2 Background to data entry

Data entry is the responsibility of the staff member who collects the record/s.

Records can either be recorded via:

a. Atlas cards or sheets (to be entered manually):

- contact WDU for Atlas cards or sheets
- as you enter and save each record in the Atlas (see [Section 5.3](#) for details), make a note of the unique sighting and location keys on the hard copy record card/sheet to allow for ease of reference to the hard copy in future, and
- file the cards/sheets securely (either locally or forward to WDU).

b. Atlas spreadsheet (for digital import):

- access a copy of the [Atlas spreadsheet](#) online, and
- submit your completed file via Atlas (see [Section 5.6](#) for details).

5.3 Data entry (manual)

- Under the **Atlas Sightings** drop-down menu, select **New sighting**.



Reset timer and Clear all

Before commencing data entry, it is important to be familiar with the following buttons;

56:25 **Reset timer**

This timer relates to the secure login software that you need to login to, in order to be able to access Atlas. Certain processes (such as saving information) send a message to the server and the timer is automatically reset for another 60 minutes. To avoid losing half entered work, prior to the 60 minute timer expiring, you can click on this **Reset timer** button at any time to refresh the timer for another 60 minutes.

Clear all

This button is unique to the **Atlas sightings** menu. It clears all of the selections made from the previous record. Further details will be discussed at the end of [Section 5.3.6](#).

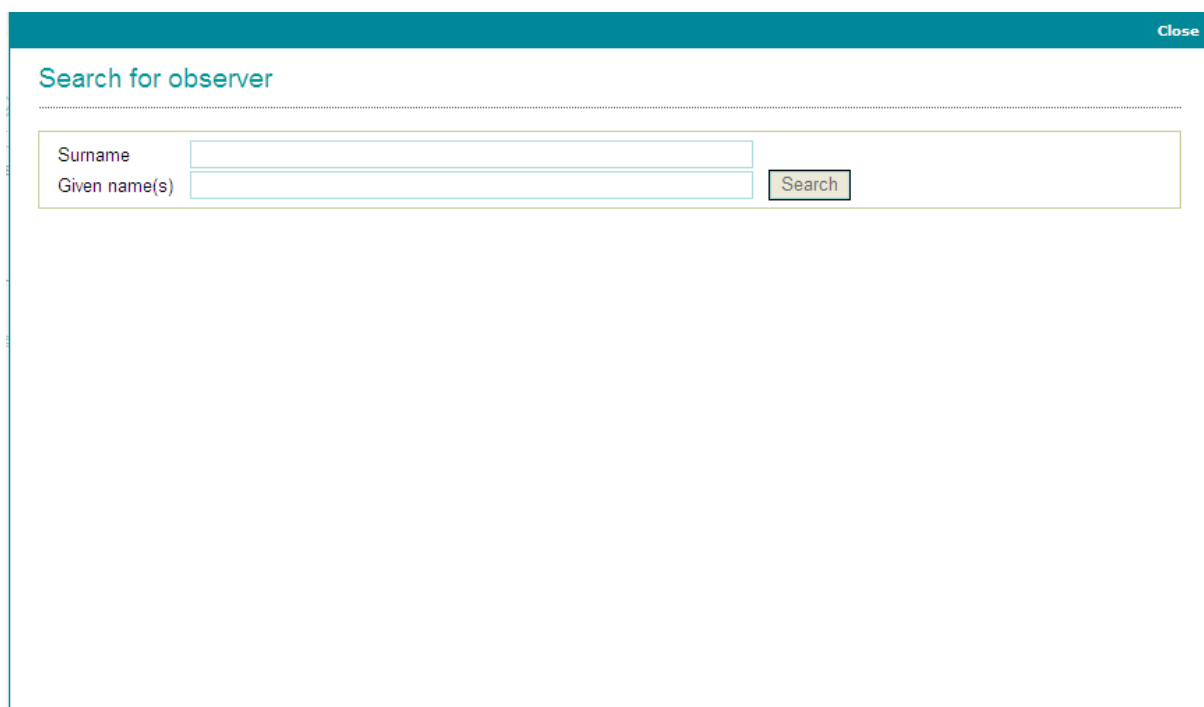
Data can now be added via the following tab folders:

- **Observer(s)**
- **Location**
- **Sighting**
- **Reference**
- **Datasource**

While you can enter data in any order you wish, you are prompted to edit the **Observer(s)** tab folder first.

5.3.1 Observer

On selecting **New sighting**, the following **Search for observer** pop-up screen will automatically appear.

A screenshot of a 'Search for observer' pop-up window. The window has a teal header bar with a 'Close' button on the right. Below the header, the title 'Search for observer' is displayed. The main area contains two input fields: 'Surname' and 'Given name(s)', each followed by a search button. The 'Surname' field is currently empty, and the 'Given name(s)' field is also empty. The search button is a small, light blue button with the word 'Search' in black text.

The reason for this pop-up is to prompt you to search the database to see if details for the observer have already been created. This avoids creating duplicate entries for the same person.

In the **Observer(s)** tab folder you have the option to;

- a. **search** for an existing observer
- b. **create** a new observer
- c. **update** the details of an existing observer
- d. **add multiple** observers, and
- e. **remove** an observer.

Following is advice for each of these available options.

a. Search for an existing observer

- To see if the observer is already in Atlas, type in all (or part) of the **Surname** and/or **Given name(s)**.

Note that the database will search on all values that **contain** your search phrase. In the following example, searching on **Surname** 'ewin' and **Given name(s)** 'p' will return all name entries that **contain** both values, rather than only those entries that **begin** with those values.

Close

Search for observer

Surname


Given name(s)

Search

Results **1-3 of 3**

Surname	Given name(s)	Address	City	Phone	Email		
Albury Brewing & Malting Co.	'none provided'	RBG Collector				Select	i
Ewin	Peter	EPRD South West Region	Buronga	03 5021 8915	peter.ewin@environment.nsw.gov.au	Select	i
Ewin	Peter	CADU				Select	i

Often you may find that the same observer has been entered multiple times. In some cases this is the result of multiple observer names being created in different NPWS offices when the original Atlas was a stand-alone database (i.e. prior to it being centrally available). In other cases, it's possible that insufficient or different contact details were attributed to the original entry, so multiple entries were created for the same observer by different staff. Another reason is because datasets, including those within the previous vegetation survey databases or licensed datasets such as the Royal Botanic Gardens (RBG) and Forests NSW, are created automatically via a bulk import process.

- Click on the  button for an individual observer, to obtain a pop-up of all contact details.

User key:

EWIP

Given name(s):

Peter

Surname:

Erwin

Address:

EPRD South West Region

PO Box 318

City:

Buronga

State:

New South Wales

Postcode:

2739

Phone:

03 5021 8915


Email:

peter.ewin@environment.nsw.gov.au

Occupation:

Biodiversity Conservation Officer

Notes:



- If the extra details displayed here confirm the observer to be the one you are searching for, click outside of the information box to close the box.
- Click on the [Select](#) link button to choose the observer.

The **Search for observer** pop-up will disappear and the details of the observer will automatically be added as a row to the **Observer(s)** tab folder.

New Sighting

Observer(s) Location Sighting Reference Datasource

Clear all

Results 1-1 of 1

New Search

Observer key	Surname	Given names	Address line 1	Address line 2	Town	
EWIP	Erwin	Peter	EPRD South West Region	PO Box 318	Buronga	Review Remove

NB: If there are multiple entries for the same observer, with the same contact details, select the entry with the most complete and up-to-date information. You can check the database to see the last time the Observer details were updated.

- To check the last time details for an observer were created or updated, click on the [Review](#) link button in the **Observer(s)** tab folder.

The **Edit observer** pop-up will appear.

Fields marked with an asterisk (*) are mandatory.

Observer identification

Observer key: EWIP

Surname*: Ewin

Given names: Peter

Occupation: Biodiversity Conservation Officer

Notes:

Contact details

Address: EPRD South West Region
PO Box 318

Town: Buronga

State: NSW

Postcode: 2739

Email: peter.ewin@environment.nsw.gov.au

Contact no. ?

Phone type	Phone number	
Main	03 5021 8915	Review Delete
Fax	03 5022 2037	Review Delete
Mobile	0427 433 937	Review Delete

History

Date Created: 17/01/1996 14:03:16

Created By: Atlas Conversion

Date Updated: 01/09/2006 09:49:15

Updated By: Peter Ewin

In the **Edit observer** pop-up, a **History** box will indicate the date the details were last updated, i.e. the **Date Updated** field. Note that this does not necessarily mean that all details were reviewed and updated at this date. It simply indicates that the details were last saved then, suggesting that at least one field was edited on this date.

b. Create a new observer

If the observer you are searching for is not already stored in the database, then you will need to create a new entry.

- Close the **Search for observer** pop-up (if it is open).
- Click on the **New** button.

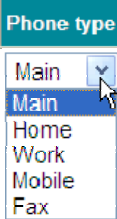
A **New observer** pop-up will appear.

Please note that while the **Surname** is the only mandatory field, you should enter as many details as possible. This both avoids duplicate observer entries being created in future and also assists in OEH staff being able to contact observers in the future should further details regarding sightings be required.

Table 2 lists descriptions and required formats for each of the fields in the **New Observer** pop-up.

Table 2 - Observer tab folder fields

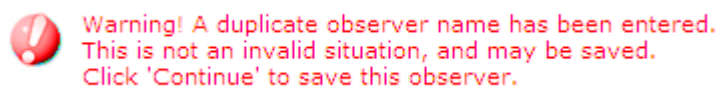
	Field	Description	Format
	Observer key	A code automatically assigned (on saving) to each observer created.	N/A Auto-populated, protected from edits.
Name	Surname*		Free text, up to 60 characters.
	Given names		Free text, up to 60 characters.
	Occupation		Free text, up to 40 characters.
	Notes	Any additional notes regarding the observer, such as experience with species identification, qualifications and alternate mailing address etc.	Free text, up to 500 characters.
Address	Address		Free text, up to 50 characters per line.
	Town		Free text, up to 30 characters.
	State		Select from drop-down list.
	Postcode		Integer, 4 digits.
	E-mail		Free text, up to 75 characters.

Contact no.	Phone type	The type of contact number, as listed in the drop-down list.  Note that details can be stored for multiple phone types.	Select from drop-down list.
	Phone number		Free text, up to 30 characters.
	<p>NB: After adding the phone number for each phone type, always click on the Add link button (located to the right of the Phone number field) to save the details of each Contact number.</p> <p>Clicking on the Add button (located in the top right corner of the Observer pop-up), without first clicking on the Add link button, will result in the last entered phone number not being saved.</p>		
History	Date created	The date and time the observer details were first entered into the database.	N/A Auto-populated, protected from edits.
	Created by	The name of the OEH officer who entered the observer.	N/A Auto-populated, protected from edits.
	Date updated	If edits have been made to the observer since it was originally entered, the date and time that the observer was last re-saved.	N/A Auto-populated, protected from edits.
	Updated by	The name of the OEH officer who edited / re-saved the observer.	N/A Auto-populated, protected from edits.

- Once all observer contact details have been entered, click on the [Add](#) button to save the observer details.

The **New observer** pop-up will disappear and the details inserted as a line in the **Observer(s)** tab folder.

Note that if you attempt to create a new observer entry with a **Surname** and **Given name(s)**, that already exist in the database (regardless of what has been entered into the other fields), the following warning message will appear at the top of the **New observer** pop-up;



If you are unsure whether the observer you are entering is exactly the same person as the observer details already created in the Atlas:

- Close the **New observer** pop-up.
- Click on the [Search](#) button in the **Observer(s)** tab folder, then search and review the details for the existing entry (or entries) with the same name.

If you are certain that you need to create this new observer (either because it is a different person, or you are unsure if the existing entry is the same person):

- Click on the [Continue](#) button to save the new observer entry.

c. Update the details of an existing Observer

If you note an existing observer has missing or outdated details, you can update these details. Note that if you are unsure if the observer entry is the same person that you are referring to (e.g. you are entering a record for a 'Bob Smith' and you notice there is an observer entry for a 'B Smith' with no other useful contact info), please do not edit this observer. The existing observer would already be attached to other records and it would be incorrect to apply contact details to a potentially different person. If however you are certain of the observer you wish to edit, proceed with the changes:

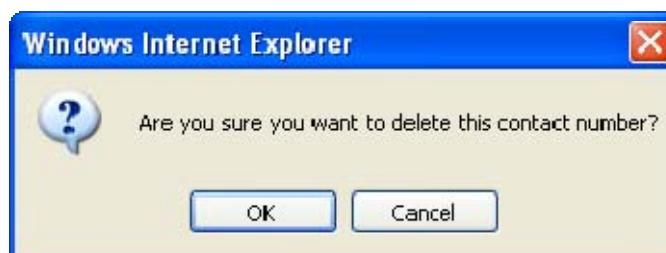
- Click on the [Review](#) link button as displayed in the **Observer(s)** tab folder.

An **Edit Observer** pop-up will appear.

- Edit the fields as necessary.

If you need to edit any values in the **Contact no.** box:

- Click on the [Review](#) link button (to the right of the phone number) to start editing.
- Once edits have been made, click on the [Update](#) button to save the changes, or click on the [Cancel](#) link button to cancel the changes.
- To delete a contact number, click on the [Delete](#) link button. The following warning message will appear to confirm you wish to delete the contact number.



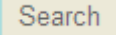

- Click on the [OK](#) button if you are sure you want to delete the contact number.
- Once all edits have been made, click on the [Update](#) button to save your changes.

Note that a pop-up window may appear advising you that changes you make to the observer details are linked to all other sightings that this observer has been assigned to.

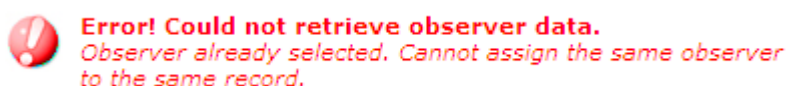


- Click on the  button.

d. Add multiple observers

- To add more than one observer, either click on the  button to search for existing entries for the observer, or click on the  button to create a new observer entry
- Repeat steps **a (search for an existing observer)** and **b (create a new observer)** as appropriate until all observers have been added.

If you attempt to add an observer that you have already selected, the following error message will appear:



Note that this error message is based upon the unique observer key, as opposed to the surname and given name(s) fields. So if, for example, there were two entries of the same observer, you would be able to add *each* of these *once* without the database detecting an error. However, if you were to attempt to enter the same unique observer *twice*, the above error message would appear and prevent you from adding the observer the second time.

e. Remove an observer

If you add an observer to your record by mistake, you can remove the name from the **Observer(s)** tab folder. Note that this does not mean that you are deleting the observer from the database, simply that you are detaching the observer from your specific sighting.

- If you have added an observer in error, click on the [Remove](#) link button to remove the observer from the list.

The following pop-up window will appear.



- Click on the  button.

After the observer(s) have been entered into the **Observer(s)** tab folder, you are now ready to enter the **location** details.

5.3.2 Location

- Click on the **Location** tab folder, located on the tab menu.



A **New Location** pop-up box automatically appears.

In the **Location** tab folder you have the option to:

- create** a new location
- search** for an existing location
- update** the details of an existing location, or
- remove** a location.

Following is advice for each of these available options.

a. Create a new location

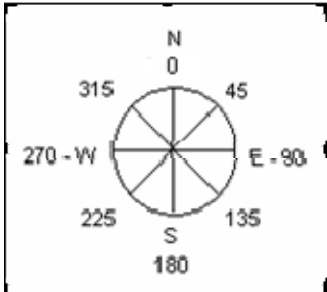
Table 3 lists descriptions and required formats for each of the fields in the **Location** tab folder. Note that fields marked with an asterisk (*) are mandatory.

- Enter details into the **New location** pop-up.

Table 3 - Location tab folder fields

	Field	Description	Format
	Location Key	A code automatically assigned to each unique location.	N/A Auto-populated, protected from edits.
	Description*	Detailed description of the geographic location, such as place name, street, nearest cross-street, town, landmark or reserve.	Free text, up to 500 characters.

Georeference	Datum*	Defines the coordinate system. Refer to the Geoscience Australia website for an explanation of datums; www.ga.gov.au/earth-monitoring/geodesy/geodetic-datums/about.html .	Select from drop-down list.
	GPS	Whether a Global Positioning System (GPS) was used to obtain the coordinates.	Tick the check-box.
	Coordinates*	Only one co-ordinate system needs to be supplied. Either; a. Projected Coordinate System (Zone, Easting and Northing), or b. Geographic Coordinate System (Latitude and Longitude). Enter the Coordinates in either coordinate system, as detailed below:	
	<i>Projected coordinate system:</i>		
	Zone		Select from drop-down list.
	Easting	The reference in metres, measured east of an arbitrary origin (also referred to as the x-coordinate).	A six digit number, with up to four decimal places.
	Northing	The reference in metres, measured north of an arbitrary origin (also referred to as the y-coordinate).	A seven digit number, with up to four decimal places.
	<i>Geographic Coordinate System;</i> <i>Note that you can enter Latitude/Longitude in either:</i> a. Decimal degrees b. Degrees, minutes, seconds, or c. Degrees, decimal minutes.		
	Latitude Degrees	To enter decimal degrees, enter the full value here.	>= -40 and <= -20.
	Longitude Degrees	To enter decimal degrees, enter the full value here.	>= 138 and <= 162.
	Latitude Minutes		Number, between 0 and 60.
	Longitude Minutes		Number, between 0 and 60.
	Latitude Seconds		Number, between 0 and 60.
	Longitude Seconds		Number, between 0 and 60.
	Original unit type*	Identification of the original coordinate system the coordinates were entered in.	Automatically populated.
	Accuracy*	How accurately the coordinates represent the exact location of the species (in metres). For example a value of 100 would mean that the location is accurate to the nearest 100m.	Integer, >= 1 and <= 100,000, with up to four decimal places.
	Location attributes	Geology type	Based on the lithological types from McDonald, R.C. et al (1984) <i>Australian Soil and Land Survey</i> field handbook. Inkata Press.
Structural formation		Defined by growth form and crown separation (equivalent to the Specht classification system), as defined in McDonald, R.C. et al (1984) <i>Australian Soil and Land Survey</i> field handbook. Inkata Press. Note that where an area lacks native vegetation, additional categories are provided (e.g. Urban, Grazing land, Open ocean).	Select from drop-down list.
Vegetation		As defined in Keith, D. (2004) <i>Ocean shores to desert</i>	Select from drop-down

	formation	<i>dunes: the native vegetation of New South Wales and the ACT.</i> NSW Department of Environment and Conservation, Hurstville.	list.
	Confidence	Confidence in the assessment of vegetation formation.	Select from drop-down list.
	Slope of area	Measured in degrees, from the horizontal.	Integer, between 0 and 90.
	Aspect of area	Measured in degrees, starting from zero as North and then going in a clockwise direction. E.g. East = 90 	Integer, between 0 and 359.
	Altitude	The height of the location, in metres, from sea level.	Integer, ≥ 0 and ≤ 2500 .
	Notes	Any additional notes regarding the location that do not fit within any of the other existing (location related) fields.	Free text, up to 500 characters.
History	Date created	The date and time the location was first entered into the database.	N/A Auto-populated, protected from edits.
	Created by	The name of the OEH officer who entered the location.	N/A Auto-populated, protected from edits.
	Date updated	If edits have been made to the location since it was originally entered, the date and time that the location was last re-saved.	N/A Auto-populated, protected from edits.
	Updated by	The name of the OEH officer who edited/re-saved the location.	N/A Auto-populated, protected from edits.

Note on how Atlas stores coordinates

The Atlas stores coordinates of all locations in decimal degrees (GDA94). Meaning if for example, you entered projected coordinates in AMG's (i.e. AMG Easting/Northing), on saving the location the database will convert the values into Geographic coordinates in GDA94 (i.e. GDA94 Latitude/Longitude) and this value is what is stored in the database. This GDA94 value is then used to obtain the value for projected coordinates (Easting/Northing) in GDA94, which is displayed in the projected coordinates box. Note that while all values will ultimately display in GDA94 datum, the **Original Unit type** field will always display the system in which the coordinates were initially entered, so it will be clear which datum and coordinate system the original coordinates were.

The below example illustrates this (possibly more clearly than I have described):

a. Enter a new location

Here a location was entered in projected coordinates (Easting/Northing) in AGD66.

Georeference

AGD66 ☐ GPS Original unit type AMG Coordinates

Projected co-ordinates		Geographic co-ordinates	
Zone*	56	Latitude	
Easting*	231000	Degrees*	-34
Northing*	6231000	Minutes*	1
		Seconds*	37.5
			-34.0270747032
			150.0866589475
Accuracy (m)*	100		

Note that at the point that coordinates are entered, Atlas will automatically calculate the corresponding coordinates in Geographics (Latitude/Longitude) in AGD66.

b. Review the location after saving

After you save the location, review the location tab folder. You will note that the Easting and Northing values are different to your original entry, as the conversion from AGD to GDA has shifts the location by approximately 200m. The database has actually stored the location in **Geographics** (GDA94) and populated the corresponding projected co-ordinates. Note the **Datum** value has been automatically updated to **GDA94**, while the **Original Unit type** field retains the **AMG Coordinates** value.

Georeference

GDA94 ☐ GPS Original unit type AMG Coordinates

Projected co-ordinates		Geographic co-ordinates	
Zone	56	Latitude	
Easting	231105	Degrees	-34
Northing	6231190	Minutes	1
		Seconds	31.8
			-34.025507877
			150.087835337
Accuracy (m)	100.0000		

- To save the **New location** details, click on the **Add** button.

If any mandatory fields are incomplete or filled in with erroneous values, an error message will appear at the top of the **New location** pop-up advising you of the specific error (any of the following messages);

Error! Please correct the error/s below:

- Description cannot be empty.
 - Original unit type must be selected.
 - Accuracy cannot be empty.
 - Please enter complete Projected Co-ordinates or Geographic Co-ordinates.
- Once you have finished entering the location details, click on the **Add** button to save the **New location**.

The **New location** pop-up closes and the details are visible with the **Location** tab folder.

Note that in addition to the values you entered, several fields are now automatically populated.

Location Key
LDMP02040503

Description
A small tributary of the Kowmung River north of Roots Ridge track where lost campers were rescued Specified Map No: 8929-4-N Specified Reserve: Kanangra-Boyd NP

Georeference
GDA94 GPS Original unit type AMG Coordinates

Projected co-ordinates
Zone 56 Easting 237805 Northing 6232990 Accuracy (m) 1000.0000

Geographic co-ordinates
Latitude Longitude
Degrees -34 150
Minutes 0 9
Seconds 39.6 39.1
-34.010990780 150.160858220


Location attributes
Geology type Sandstone
Structural formation Open forest
Vegetation formation:
Confidence:
Slope of area
Aspect of area
Altitude 400

Notes

History
Date created 05/04/2002 15:48:55
Created by Deyarne Plowman
Date Updated 05/04/2002 15:49:14
Updated by Atlas Conversion

Calculated Area(s)

Layer Type	Area Name
LGA	OBERON
Reserve	Kanangra-Boyd NP
Mapsheet Number	8929 - BURRAGORANG
Mapsheet Number	8929-4-N - YERRANDERIE
CMA	Hawkesbury-Nepean
CMA Subregion	Hawkesbury/Nepean - Kanangra
Bioregion	South Eastern Highlands (NSW)
Botanical Division	Central Tablelands
Mapsheet Name	BURRAGORANG (8929)
Mapsheet Name	YERRANDERIE (8929-4-N)

1. The **Location Key** is a unique value which is automatically populated after saving the new location details.
2. The **StreetMap** icon  in the Geographic co-ordinates box. You can click on the StreetMap icon to view the location of the coordinates in OpenStreetMap.
3. The **History** box details the date and time the location details were entered into Atlas, and the staff member who entered the information.
4. The **Calculated Area(s)** box lists all the spatial layers that are stored within Atlas which your coordinates fall within.

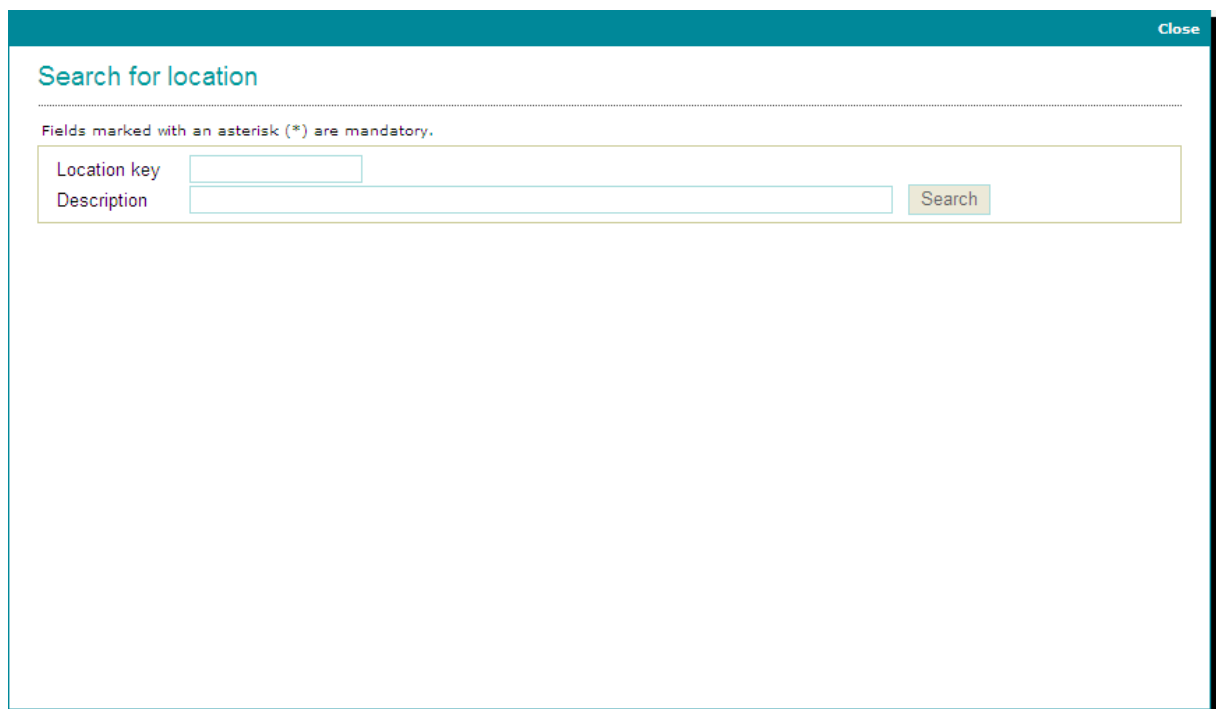
b. Search for an existing Location

Important: Only search on existing locations that **you** have entered. Do **not** search on an existing location which has been created by someone else, and use that location. The reason is that the observer of a particular location may later decide that their coordinates (for the associated species) were inaccurate. If they change the coordinates, all sightings attached to that location (including any that you have since added) will be affected.

If you have previously entered a location into Atlas and wish to add sightings to the same location, you do not need to re-enter the location details.

- To search for an existing location, close the **New location** pop-up.
- Click on the **Search** button.

A **Search for location** box will appear.



Search for location

Fields marked with an asterisk (*) are mandatory.

Location key

Description

- In the **Location Search** box, type in either:
 - all (or part) of the **Location Key** (if you know it), or
 - all (or part) of the **Description**.

Note that the database will search on all locations that **contain** either value, rather than only those that **start** with your search value. Typing in a locality, e.g. 'Grafton' will return all location descriptions that contain the word 'Grafton'. Keep in mind that the search word(s) are a string, so the text needs to be written exactly (e.g. searching on 'Grafton Road' will return all description that contains 'Grafton Road', but not 'Grafton Rd', for example).

- Click on the button.

The results list that returns includes the **Location key** and **Description** fields.

Fields marked with an asterisk (*) are mandatory.

Location key

Description

Results **1-100** of **4590**

[Show all results](#)

1 2 3 4 5 ...

Location key	Description	
LPJGI0135151	"1.55km West along Old Glen Innes (Grafton Road) from intersection of Wintervale Road. North of road, midslope."	Select
LPJGI0135060	"100m North West on Conroys Road, from junction with Old Grafton Road, Gully West side of Road."	Select
LPJGI0125887	"1km from Grafton-Old Glen Innes Rd. Road at old quarry, western track and approx 1km past track intersection - 60m south of hill."	Select
LPJGI0113586	"1km S Halfway Creek, S of Grafton, near Pacific Hwy"	Select
LPJGI0125886	"1km west on Ramornie Rd, 1km from old Grafton-Glen Innes Rd site, 400m along old logging track, past first bend in road after old gravel pit."	Select
LPJGI0135152	"2.55km West along Old Glen Innes (Grafton Road) from intersection of Wintervale Road. North of road, midslope."	Select
LPJGI0135056	"350m East along Old Grafton Road from junction with Doboy Road, North side of road."	Select
LPJGI0125989	"5.5km along Doboy Rd from Old Grafton Glen Innes Rd - 800m south along new logging road, 50m east of log dump."	Select
LPJGI0126291	"About 0.5km along Pidcocks Rd, off Armidale-Grafton Rd, between Clouds Ck and Hortons Ck."	Select

Note that where there are multiple locations returned, the first 100 will be displayed in the first page and additional locations are accessed by clicking on the subsequent pages. If more than five pages (i.e. more than 500 locations) were returned, additional pages after the fifth will be displayed as ...

- To show all results in the one page, click on the [Show all results](#) link button.
- To select a location, click on the [Select](#) link button.

This will automatically close the **Search for location** pop-up window and insert the location into the **Location** tab folder.

- Check the details of the location to ensure that this is the correct location. If this is not the correct location, click on the button to search again, or click on the button to create a new location.

c. Update the details of an existing location

Important: Only edit locations you have previously entered as they will have existing sightings linked.

If you forgot to enter some location details, or have noticed a typo in your location, you can make changes.

- Click on the button.

An **Edit location** pop-up will appear.

- Edit any fields as appropriate.
- Click on the **Update** button to save your changes.

A Windows Internet Explorer message pop-up will advise you that the location may be linked to other sightings.



- If sure, click on the **OK** button.

The **Edit location** pop-up will disappear and the changes displayed in the **Location** tab folder.

d. Remove a location.

If you have entered a location in error, i.e. you have searched on an existing location and selected the wrong one, simply replace the **Location** tab folder with the correct location. Either:

- click on the **Search** button, to search for the correct location, or
- click on the **New** button, to enter details into the **New Location** pop-up.

Either option will override whatever location details were previously stored in the **Location** tab folder.

- Once details have been entered into the **Location** tab folder, record the **Location Key** on your hard copy card/sheet.

You are now ready to enter the **Sighting** details.

5.3.3 Sighting

- Click on the **Sighting** tab folder.



There are two slightly different versions of the **Sighting** tab folder dependant on whether you enter a flora or a fauna sighting. The **Sighting** tab folder defaults to the **FAUNA** sighting option, which will be discussed first. The differences in the fields for **FLORA** sightings are discussed later.



Enter details for a FAUNA sighting



Table 4 lists descriptions and required formats for each of the fields in the Sighting tab folder (specific to fauna). Note that fields marked with an asterisk (*) are mandatory.

- Enter details into the **Sighting** tab folder.

Table 4 - Sighting tab folder fields (for fauna)

	Field	Description	Format
	Sighting key	A unique code automatically assigned (after saving) to each sighting.	N/A Auto-populated, protected from edits.
	Sighting type*	The FAUNA radio button is selected by default.	Radio button selection.

Date	First Date*	<p>The date the species was recorded.</p> <p>You can enter the date by either</p> <p>a. selecting it from the calendar pop-up, or</p>  <p>b. typing the date in the format dd/mm/yyyy.</p>	dd/mm/yyyy, >= 01/01/1770.
	Time	The specific time the species was recorded.	hh:mm. Type in, or selected from the drop-down menus.
	Last Date	<p>Note that once the First Date field has been entered, the Last Date field will automatically be populated with the same value.</p> <p>For species recorded over a period of time (e.g. during a survey conducted over a week, or where an approximate date was given), change the Last Date as necessary, by either selecting from the calendar pop-up or typing over the existing date.</p>	dd/mm/yyyy >= First date and <= data of entry.
	Time	The specific time the species was recorded.	hh:mm. Type in, or selected from the drop-down menus.
Species	<p>When entering the species name, you only need to enter one of the three available fields (i.e. Common name or Scientific name or Fauna code) and the database will automatically populate the other fields.</p>		
	Common name*	<p>The common name by which the species is known.</p> <p>Type in all or part of the Common name (e.g. Cockatoo) and a selection of common names that contain the word 'Cockatoo' anywhere in the name will display in the drop-down box.</p>  <p>Scroll down through the list to select the appropriate name.</p> <p>Note that not all species will have a common name assigned in Atlas.</p>	Type in all, or any part, of the name and select from the drop- down list.
	Scientific name*	<p>The scientific name by which the species is known.</p> <p>Type in all or part of the beginning of the Scientific name. Note that the drop-down list will only display a selection of those</p>	Type in all, or part of the beginning , of

		<p>scientific names that begin with the values entered.</p> <p>Scientific name* </p>  <p>Scroll down to select the appropriate species.</p>	the name and select from the drop-down list.
	Fauna Code*	<p>A unique code attributed to an individual species, genus or family.</p> <p>Background to Fauna Codes</p> <p>The Atlas stores the taxonomic details of many species, each assigned a unique code. Fauna codes are stored within library files in the Atlas known as CAVS (explained below). To enter a record into the Atlas, a unique species code for that species must already exist in the Atlas database.</p> <p>Fauna codes (CAVS)</p> <p>Taxonomic information for fauna species are taken from the Census of Australian Vertebrate Species (CAVS), which is maintained by the Australian Biological Resources Study (ABRS) as part of the Department of Sustainability, Environment, Water, Population and Communities (SEWPC). Sometimes a code is not readily available, such as when a species is in the process of being formally described, or when ABRS have yet to assign a code. In all these cases the WDU will need to create a temporary code, usually starting with a letter such as T (for temporary) or I (for invertebrate).</p> <p>Generally you would only enter the code if you already know it. In most cases you would select the species by either Scientific name or Common name, and allow the database to automatically populate the Fauna code.</p>	Unique letter/number (see CAVS list).
	Population	<p>Whether the species is part of an Endangered Population (as listed under the TSC Act). You will not be able to fill in this field, it will be automatically populated (if applicable) once you save the record.</p> <p>Background to Endangered Populations</p> <p>WDU maintain a shapefile of species specific endangered population boundaries, based on the descriptions in the Final Determinations from the Scientific Committee. This shapefile is updated at the time of gazettal.</p> <p>On saving your record, the database cross-references the coordinates and species name against this shapefile. If your record falls within the boundary of an endangered population for that specific species, the relevant endangered population code will be populated in this field on saving. Only on re-opening your saved sightings will you be able to view the endangered population code in the Population field.</p>	N/A Auto-populated, protected from edits.
	Observation*	<p>(For fauna only)</p> <p>Refers to how the species was observed (e.g. observed, heard, scat etc.). This field is populated as observed by default (being the most common observation type). If appropriate, select a different observation type. If more than one observation type was recorded, select the most reliable observation type here and enter additional values in the Notes field.</p>	Select from drop-down list.

	Source*	Source distinguishes standard sightings from those held at public or private collections. The default value for this field is set to Sighting only . You only need to change the value if a specimen was taken (i.e. either Specimen with public museum or herbarium or Specimen with other collection), or if there is some uncertainty around the identification, particularly in the case of Anabat records (i.e. Sighting – probable ID or Sighting – possible ID).	Select from drop-down list.
	Number	The total number of individuals.	Integer, between 1 and 999,999.
	Estimate	The accuracy of the Number (e.g. exact , estimate , more than , or less than).	Select from drop-down list.
	Sex	The sex of the species.	Select from drop-down list.
	Microhabitat types	The small-scale habitat (e.g. on ground , or in tree).	Click in the check-boxes to select (or de-select) values.
	Breeding types	Details of the breeding status of the species (e.g. eggs or nesting).	Click in the check-boxes to select (or de-select) values.
	Notes	Enter any details regarding the species that could not be entered into any of the other existing fields.	Free text, up to 500 characters.
	External Key	Observer's own unique reference number.	Free text, up to 30 characters.
	File Location	If the record has been entered from a hard-copy report, you could enter the office in which the report has been filed. Include any details regarding the records' physical location, should it need be accessed in the future.	Free text, up to 65 characters.
	Status	All records go through a validation process on entry. (See Section 5.4 for details). This field is automatically populated on saving.	Auto-populated, protected from edits.
	Validation Flags	Once a record is saved, it will have been assigned a Status as part of the validation process. If the record fails validation and is saved to the Quarantine section of Atlas, the reason for this will be displayed in the Validation flags field. Note that on saving your record you will no longer be notified (via a pop-up) if it saves to Quarantine. If interested, you would be best to review your records after entry.	Auto-populated, protected from edits.
History	Date created	The date (and time) the sighting was first entered into the database.	Auto-populated, protected from edits.
	Created by	The name of the OEH officer who entered the record.	Auto-populated, protected from edits.
	Date updated	If edits have been made to the record since it was originally entered, the date (and time) that the record was last re-saved.	Auto-populated, protected from edits.
	Updated by	The name of the OEH officer who edited/re-saved the record.	Auto-populated, protected from edits.

Specimen

If a specimen has been lodged at a Herbarium or Museum, you can assign details as follows;

- Select the appropriate **Source** (i.e. either ***Specimen with public museum or herbarium*** or ***Specimen with other collection***)
- Click on the **Specimen** button (located in the top right hand corner of the **Sighting** tab folder).

An **Edit individual details** pop-up will appear.

Close

Edit individual details

No specimens found...

Specimen rego	Specimen location	Length (mm)	Weight (g)	Field no.	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Add

Table 5 lists descriptions and required formats for each of the fields in the **Edit Individual details** tab folder. Note that fields marked with an asterisk (*) are mandatory.

- Enter details into the **Edit individual details** tab folder.

Table 5 - Edit individual details

Field	Description	Format
Specimen rego*	Unique number assigned by the Herbarium or Museum. If not yet available, write 'not provided'.	Free text, up to 40 characters
Specimen location*	The name of the institution at which the specimen has been lodged.	Select from the drop-down list.
Length (mm)	The length of the specimen, in millimetres.	Numeric, up to 9,999, with up to 2 decimal places.
Weight (g)	The weight of the specimen, in grams.	Numeric, up to 9,999, with up to 2 decimal places.
Field no.	If you have assigned your own unique code for the specimen.	Free text, up to 40 characters.

- To save the Specimen details, click the [Add](#) link button

The link buttons [Review](#) [Remove](#) will appear to the right of your Specimen details, additionally an extra blank line is inserted underneath.

[Close](#)

Edit individual details

Results **1-1** of **1**

Specimen rego	Specimen location	Length (mm)	Weight (g)	Field no.	
NSW12345	The Australian Museum, Sydney	50.5	200	ABC123a	Review Remove
<div style="border: 1px solid #ccc; padding: 2px;"> <div style="border-bottom: 1px solid #ccc; height: 20px; margin-bottom: 2px;"></div> <div style="border-bottom: 1px solid #ccc; height: 20px;"></div> </div>	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="border-bottom: 1px solid #ccc; height: 20px; margin-bottom: 2px;"></div> <div style="border-bottom: 1px solid #ccc; height: 20px;"></div> </div>	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="border-bottom: 1px solid #ccc; height: 20px; margin-bottom: 2px;"></div> <div style="border-bottom: 1px solid #ccc; height: 20px;"></div> </div>	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="border-bottom: 1px solid #ccc; height: 20px; margin-bottom: 2px;"></div> <div style="border-bottom: 1px solid #ccc; height: 20px;"></div> </div>	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="border-bottom: 1px solid #ccc; height: 20px; margin-bottom: 2px;"></div> <div style="border-bottom: 1px solid #ccc; height: 20px;"></div> </div>	Add

- If a specimen has been lodged at multiple locations, enter the relevant details and click on the [Add](#) link button again.


Note that you must click on the [Add](#) link button after each new Specimen details are entered. Failing to click [Add](#) will result in the last entered Specimen details not being saved to the database.

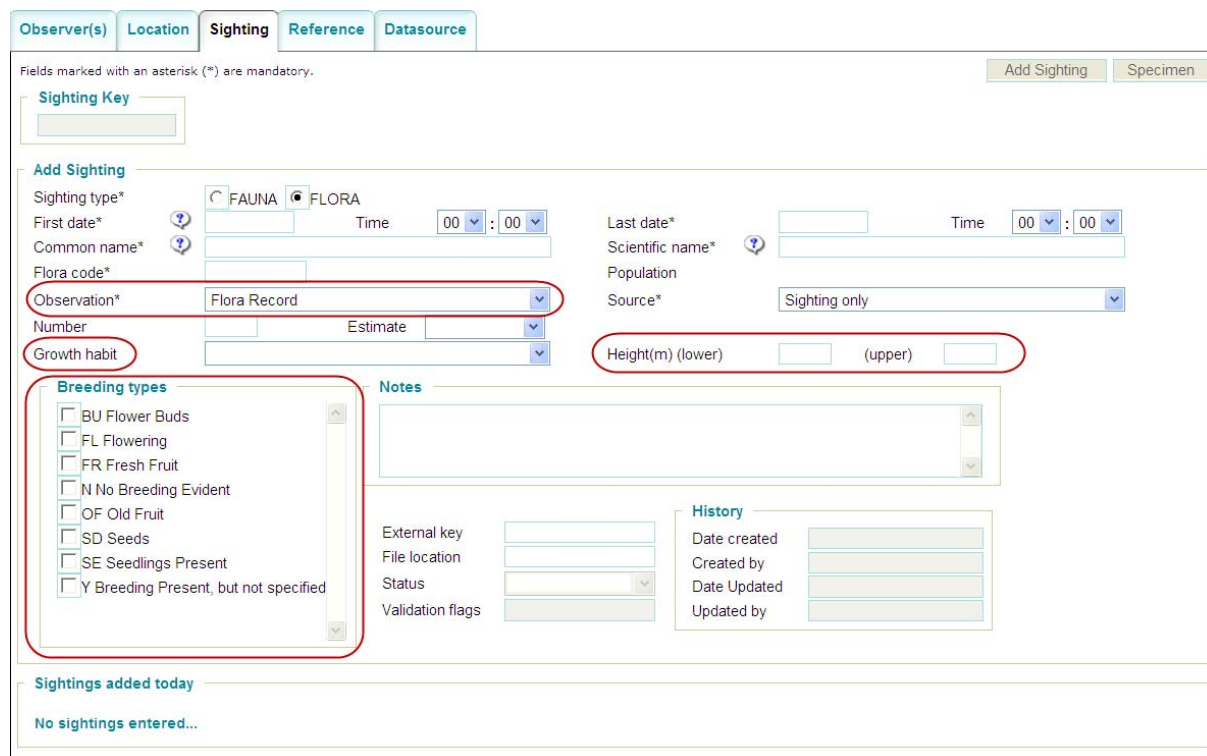
- Once all Specimen details have been added, close the **Edit individual details** pop-up.

If you need to make changes to any of the specimen details you have entered:

- click on the [Review](#) link button to make changes to any of the fields, or
- click on the [Remove](#) link button, to remove all reference to the individual details.

Enter details for a FLORA sighting

- To enter a flora sighting, click on the **flora** radio-button  **FLORA**.



Fields marked with an asterisk (*) are mandatory.

Add Sighting

Sighting type* ☐ FAUNA ☒ FLORA

First date* Time : :

Common name*

Flora code*

Observation*

Number Estimate

Growth habit

Last date* Time : :

Scientific name*

Population

Source*

Height(m) (lower) (upper)

Breeding types

☐ BU Flower Buds

☐ FL Flowering

☐ FR Fresh Fruit

☐ N No Breeding Evident

☐ OF Old Fruit

☐ SD Seeds

☐ SE Seedlings Present

☐ Y Breeding Present, but not specified

Notes

External key

File location

Status

Validation flags

History

Date created

Created by

Date Updated

Updated by

Sightings added today

No sightings entered...

Flora records are entered as for fauna guidelines (see Table 4 and 5), with a few variations, as circled above and outlined in table 6. Note that fields marked with an asterisk (*) are mandatory.

Table 6 - Sighting tab folder fields (additional/altered fields for flora)

Field	Description	Format
Flora code	A unique code attributed to an individual species, genus or family. Flora codes were historically maintained by the RBG, but are now maintained by WDU. They are referred to as the Census of Australian Plant Species (CAPS). They are usually based on the names accepted by the RBG and displayed on the PlantNET website (http://plantnet.rbgsvd.nsw.gov.au/) though many other published names are also included.	Unique letter/number (see CAPS lists).
Growth habit	Whether the plant is a tree, herb, fern etc.	Select from drop-down list.
Height (lower)	The height (in metres) of the shortest plant.	4 digit number, up to 2 decimal places. Must be less than the Upper height value.
Height (upper)	The height (in metres) of the tallest plant.	4 digit number, up to 2 decimal places. Must be greater than the Lower height value.
Breeding types	While this field also applies to fauna, the available values in the flora setting are specific to plants.	Click in the check-box to select (or de-select) a value. Note that multiple values can be selected.

Observation*	While this field also applies to fauna, this field is automatically populated as flora record . Note that although there is an option for Floristics flora survey , this should never be used here, as it is to be used for records entered via VIS floras survey module.	Select from drop-down list.
Note that the <i>Microhabitat type</i> and <i>Sex</i> fields do not apply to the Flora setting.		

Advice regarding entering synonyms

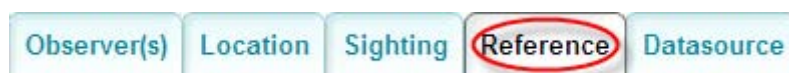
If you enter a species which is stored in the Atlas as a synonym of another species, the Common Name and Scientific name will automatically display as the latest taxon, but the Flora code will reflect the original species. For example, if you enter a record for *Corunastylis fimbriata*, you will notice that because this is a synonym of *Genoplesium fimbriatum*, the latest taxon *Genoplesium fimbriatum* will automatically overwrite *Corunastylis fimbriata* in the Scientific Name field. However the Flora code field will store the correct code for *Corunastylis fimbriata*.

At this point, if your record is not from a reference, and you do not wish to alter the dataset to which the record will be saved to, you can skip to Section [5.3.6 Save the sighting](#).

5.3.4 Reference

The **Reference** tab folder is not mandatory and only needs to be filled in if the sighting is being entered from a report such as a journal or book.

- Click on the **Reference** tab folder.



The screenshot shows the 'Reference' tab selected in the top navigation bar. The form contains the following sections:

- Reference identification:** Fields for Reference key, Title, Author(s), Publisher name, Year of publication, Type of publication, and City of publication.
- If from a journal or book:** Fields for Name of book, Name(s) of editor, and Volume of publication.
- How reference is used:** Fields for Details of publication, Pages, Keywords for article, Location, and a checkbox for 'Used in manuscript'.
- Comments:** A large text area for additional notes.

In the **Reference** tab folder you have the option to;

- create** a new reference
- search** for an existing reference
- update** the details of an existing reference, or
- remove** a reference.

Following is advice for each of these available options.

a. Create a new reference

- To enter details for a new reference, click on the  button.

A **New reference** pop-up will appear.

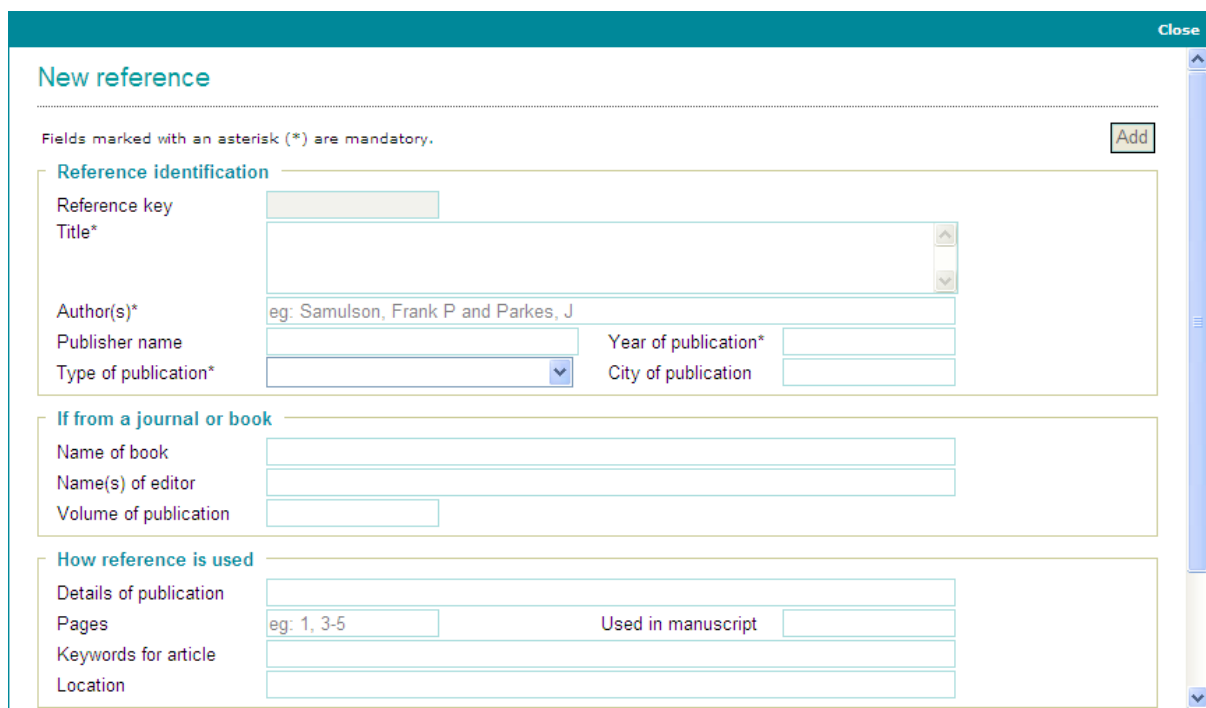


Table 7 lists descriptions and required formats for each of the fields in the **Reference** tab folder. Note that if details are entered into **any** of these fields, the mandatory fields, marked with an asterisk (*), must be completed.

Table 7 - Reference tab folder fields

Field	Description	Format
Reference key	A unique code automatically assigned to each sighting.	N/A Auto-populated, protected from edits.
Title*	If the record is sourced from, or included within a report, include the title of the publication.	Free text, up to 500 characters.
Author(s)*	Author(s) of the publication.	Free text, up to 255 characters.
Publisher name	Name of publisher.	Free text, up to 60 characters.
Year of publication*	Year of publication.	Integer, >= 1770.
Type of publication*	Type of publication (e.g. journal , book etc)	Select from drop-down list.
City of publication	City of publication.	Free text, up to 30 characters.
Name of book	Name of book.	Free text, up to 150 characters.
Name(s) of editor	Name(s) of Editor.	Free text, up to 60 characters.
Volume of publication	Volume of publication.	Free text, up to 30 characters.
Details of publication		Free text, up to 500 characters.
Pages	The specific page numbers where the species record is referenced.	Free text, up to 40 characters.

Used in manuscript		Free text, up to 65 characters.
Keywords for article		Free text, up to 500 characters.
Location	Details on the location of the document, such as the OEH office where the document is stored.	Free text, up to 500 characters.
Comments	Additional details about the reference that could not be included in any of the other fields.	Free text, up to 500 characters.

- To save the new reference, click on the **Add** button.

On successfully saving the reference, the **New reference** pop-up will disappear and the details will be stored in the **Reference** tab folder. A **Reference key** will be automatically populated.

b. Search for an existing reference

If you have entered details for a reference previously, or wish to search to see if anyone else has created an entry for the specific reference your record is contained in, you can search for this.

- Click on the **Search** button.

A **Search for reference** pop-up appears.

- Type in all (or part) of the **Title** and/or **Author(s)**.

Note that the database will search on all values that **contain** your search phrase, rather than only those references that **begin** with each search phrase.

- Click on the **Search** button.
- In the resulting list of references, click on the **Select** button to insert the details into the **Reference** tab folder. Note that this is the only way you are able to view the full details of a reference.
- If you have selected a reference incorrectly, click on the **Search** button to search again.

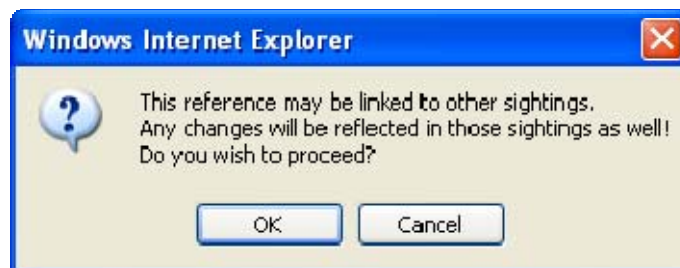
c. Update the details of an existing reference

Important: Only edit locations you have previously entered as they will have existing sightings linked.

You can edit the details of a reference you have previously entered.

- Click on the **Review** button.
- An **Edit reference** pop-up will display, allowing you to make any necessary changes.
- To save the changes, click on the **Update** button.

A Windows Internet Explorer pop-up will appear advising you that this reference may be linked to other sightings



- If sure, click on the **OK** button.

d. Remove a Reference

As the reference is not mandatory, if you decide that a sighting should not be attached to a reference after all, you can remove the details.

- To remove details of a reference from your sighting, click on the **Clear** button.

Note that this is only removing the link between the reference and your sighting (i.e. you are not deleting the reference from the database).

At this point, if you do not wish to alter the dataset to which the record will be saved to, you can skip to Section [5.3.6 Save the sighting](#).

5.3.5 Datasource

While all OEH staff have **view** access to all records in Atlas, the ability to **enter new** records and **edit existing** records is restricted by which **dataset(s)** you have access to. When your Atlas account is created, all OEH staff are given access to the dataset '**OEH Default Sightings**' as the default dataset. You can have access to additional datasets, and if appropriate, nominate a different dataset as your default.

These details regarding the dataset to which your record is attached are contained in the **Datasource** tab folder.

You would only need to view and edit the **Datasource** tab folder if you wish your records to be assigned to a different dataset (that you have already been given access to). If, for example, you are coordinating a community survey for records of a particular species, you may want all of those records attached to a particular dataset name. Keep in mind that records collected as part of a systematic survey should always be entered via the appropriate survey module.

To view or edit the Dataset;

- Click on the **Datasource** tab folder.

Observer(s) Location Sighting Reference **Datasource**

Observer(s) Location Sighting Reference Datasource

Dataset details

DataSet OEH Default Sightings Search

Survey details

Survey

Census

Census details

Census key

Technique type

First date Last date

Census description

Note that while there are several fields in this tab folder, the only edits you can make in this tab folder are to the **Dataset** field.

To change the Dataset to which a record is attached;

- Click on the Search button.

A **Search for datasource** pop-up window will display, allowing you to search on all Dataset names.

Close

Search for datasource

Dataset name Search

- Type in all (or part) of the **Dataset name** and click on the Search button.

Alternatively, you can also use the wildcard % to search on all datasets that you have edit access to.

Close

Search for datasource

Dataset name Search

Results 1-2 of 2

Datset name	
OEH Default Analyses	Select
OEH Default Sightings	Select

Note that the resulting list for your account may appear differently to the example as shown above, depending on which datasets you have been given access to.

- In the resulting list of datasets, select the appropriate dataset name by clicking on the [Select](#) link button.

This will close the **Search for datasource** pop-up and insert the selected dataset name into the **Datasource** tab folder.

Note:

All non-survey records for which OEH are custodian are automatically assigned to the **OEH Default Sightings** dataset.

If you open an existing sighting;

- Datasets which are managed independently to OEH, such as data from the RBG or Australian Museum are identified as such via the dataset name.
- Records that have been collected as part of a systematic survey are entered into the Atlas survey modules under a specific survey name, e.g. *Small mammal trapping in Royal NP*. For these records, the **Survey details** and **Census details** are automatically populated upon entry into the survey module.

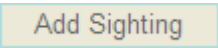
Note that you should only ever assign a record to a different dataset if you are familiar with the dataset. Contact the WDU to discuss access to datasets or the creation of new dataset names.

You are now ready to save your sighting.

5.3.6 Save the sighting

Once all of the available details have been entered into each of the tab folders, you can save the sighting.

- Go to the **Sighting** tab folder (if you are not already there).

- Click on the  button.

Your sighting will **not** successfully save if;


- values have **not** been entered into mandatory fields
- incorrect** values have been entered, or
- the sighting has been flagged as being a **duplicate** of an existing sighting.

Following is advice for each of these scenarios.

a. Missing values

While there are too many error messages to list all, an example of an error message where values have **not** been entered into mandatory fields is shown below. In this case, no values were entered into the Sighting tab folder.


Error! Please correct the error/s below:

- First Date cannot be empty.
- Last Date cannot be empty.
- Fauna code cannot be empty.
- You would need to edit the values in the fields listed and attempt to save by clicking on the  button in the Sighting tab folder.

b. Incorrect values

While there are too many error messages to list all, an example of an error message where an incorrect value was entered is shown below. In this case, a number greater than 90 was entered into the Slope field in the Location tab folder.

Error! Please correct the error/s below:


- Slope of area must be a number between 0 and 90.
- You would need to edit the values in the fields listed and attempt to save by clicking on the  button in the Sighting tab folder.

c. Potential duplicate

The database has a check to ensure that duplicate sightings are not re-entered. Every time you attempt to save a new sighting, the database checks whether there is an existing record for the same species, same first and last dates and same location coordinates (to within 100m). If there is an existing record that matches all three criteria, the following pop-up will appear;

Close

Sighting duplicate warning

 **Warning!** You may be entering a duplicate sighting!
Please check the list below for existing sightings that match the one you have entered.
Click 'Cancel' to abort or 'Continue' to save this sighting.

Existing sightings

Sighting key	Species code	Scientific name	Common name	First date	Location	Latitude	Longitude	
SDMP11111001	0705	Cracticus tibicen	Australian Magpie	10/11/2011	ljkjkl	-34.027192209	150.086644352	Review

Note that the **Sighting duplicate warning** pop-up will list **all** sightings that your record is a potential duplicate of, so there may be more than one listed.

- To see the full details of the existing sighting, click on the [Review](#) link button.

The existing sighting will open in a new Atlas window.

- Review the details of the existing sighting to determine whether the sighting you are trying to save is an exact duplicate, or a valid sighting that just happens to be within 100m (for the same species and date) of the existing sighting.

You now have two options:

a. If the species is an exact *duplicate*:

- Close the extra Atlas window (i.e. the new window with the existing sighting).
- Click on the button (as shown in the above screen shot).

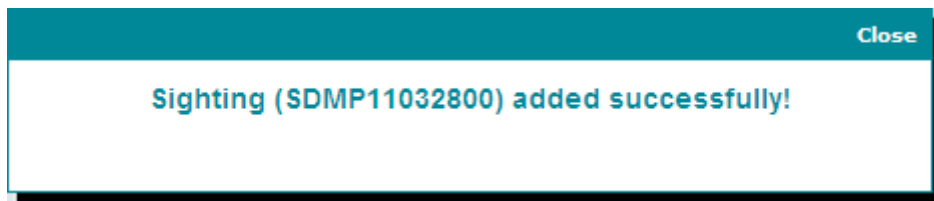
The **Sighting duplicate warning** will close. Note that the details you entered are still displayed in the **New Sighting** tab folders, giving you the option to enter another (new) sighting. To enter your next sighting, either click on the button to clear all values to start again, or, if appropriate, edit only those values in the tab folders that are different.

b. If the sighting is a *valid* record (that just happens to be within 100m of an existing sighting):

- Click on the button.

Note that your sighting will be saved to the Quarantine section of the database (refer to Quarantine advice box, below) for review by the WDU.

Once your record has no errors, missing values or potential duplicates flagged, it will save successfully and a pop-up window will display your **Sighting Key**.



- Record the **Sighting key** on your hard copy card/sheet and file the card/sheet appropriately.


IMPORTANT

Note that if your record fails validation and is saved to the Quarantine section of Atlas, you will **not** receive a pop-up message advising you of this. To determine if any records you entered have been saved to quarantine, refer to [Section 5.4.3](#).

Entering multiple Sightings

After each sighting is successfully saved, the sighting is added to the **Sightings added today** list (located at the bottom of the **Sighting** tab folder). The **Sighting** tab folder is cleared of information, with the exception of the dates previously entered. In addition to this, the values entered into all of the other tab folders are retained. This allows you to enter multiple sightings for the same date, location, observer, reference and datasource, without having to re-enter the information. You have three options when entering additional sightings:

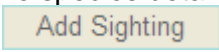
a. where ALL details are the SAME (i.e. same date, location, observer, reference and datasource)

- Enter details into the **Sighting** tab folder.
- Select  to save the new sighting.

Repeat this for each sighting for the same date, location and observer.

b. where SOME details are DIFFERENT

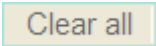
If any subsequent sightings have different details in any of the tab folders (observer, location, reference or datasource), or a different date, you can change the details by clicking on the appropriate tab folder and searching or creating new details as appropriate.

- Click on the tab folder where the details are altered and make the necessary changes.
- Enter the species details into the **Sighting** tab folder.
- Select  to save the new sighting.

Note that this does not change the details for your previous sighting, only **additional** (i.e. new) sightings that are saved with the new details.

c. where ALL details are DIFFERENT

If you are entering a new sighting for a completely different date, observer and location to that you have previously entered, you can clear all of the values.

- Click on the  button to clear values from all tab folders.

Note that this does not delete your previous record.

5.4 Validation and Quarantine

5.4.1 Background

To reduce the likelihood of incorrect records being stored in the Atlas, records entered manually or imported via the Atlas spreadsheet undergo automatic validation. The database checks against:

- Accepted distribution (i.e. to check if the record occurs outside of the accepted distribution range for the species).
- Potential duplicates (i.e. to check if a record already exists in the database for the same species, first date, last date and coordinates to within 100m).

Exceptions to the validation process are large datasets provided by external custodians, which are maintained external to the Atlas process (e.g. Australian Museum data, Birds Australia data).

After undergoing validation, all records are automatically assigned a status.

Either:

- V - Valid and accepted without modification, or
- I - Invalid, in quarantine.

If the status is Invalid, the reason that the record failed validation is listed in the Validation flags field. Either:

- ACD (accepted distribution), or
- DUP (potential duplicate).

Any records that fail validation are saved to the **Quarantine** section of the Atlas and assigned a Status 'I'. These records are not necessarily incorrect, but often simply require further validation checks. They will sit in Quarantine until they are reviewed and assigned a new Status from the following options;

- Q - Accepted as valid from Quarantine.
- S – Suspect.
- R – Rejected as certainly incorrect.
- G – Vagrant record.
- X – Valid record from population that is no longer extant.

Invalid (I), Suspect (S) and Incorrect (R) records are not released to external clients outside of OEH. Valid (V), Accepted (Q), Vagrant (G) and Extinct (X) records are available for release externally. Similarly, the default reports extracted by OEH staff do not include Invalid, Suspect nor Incorrect records, however staff can choose to include these records in their reports (refer to [Section 6.2.1](#) for information on filtering search results by status type).

The most common reason for records failing validation and being stored to the Quarantine section of Atlas is due to the record falling outside of the known 'accepted distribution' for the species.

As an example of this, figure 3 shows the accepted distribution map for the Spotted-tailed Quoll, *Dasyurus maculatus*. This distribution, like that for all threatened species, has been generated from CMA Subregions based on existing records (see Threatened Species Profile User manual for further information). Distributions for non-threatened species are generally based on 1:100,000 mapsheets for known fauna records and Botanic Divisions published on PlantNET for flora species.

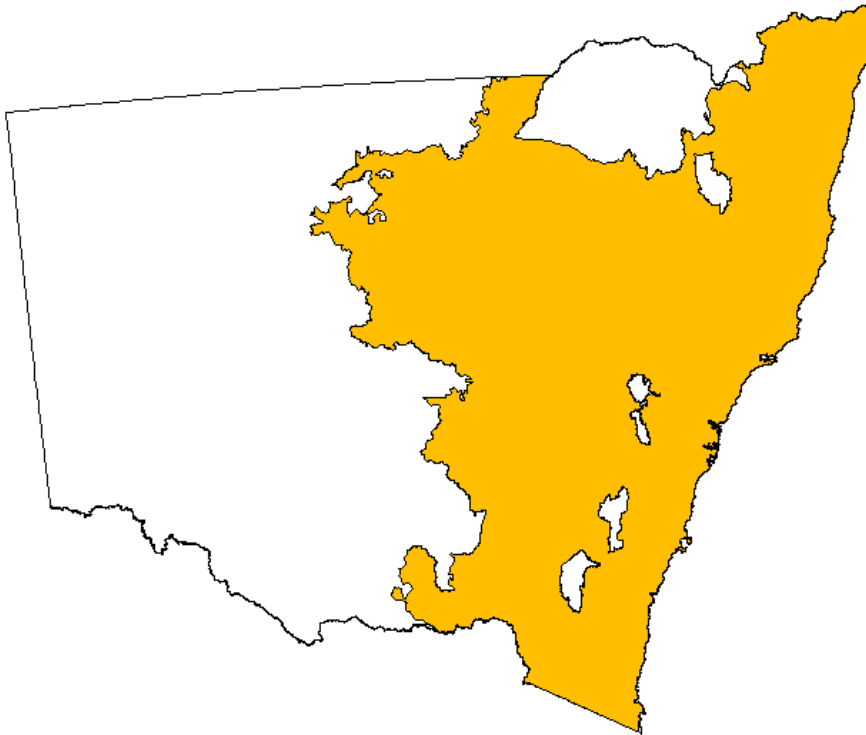


Figure 3 - Accepted distribution map for the Spotted-tailed Quoll (*Dasyurus maculatus*)

Any records of Spotted-tailed Quoll entered where the coordinates occur within the orange shaded area, will be accepted as Valid records. Records of Spotted-tailed Quoll that occur outside of this shaded area (even by just a metre) will fail validation (based upon the accepted distribution criteria) and saved to the Quarantine section of Atlas, awaiting review.

5.4.2 Background to accepted distribution maps

Accepted distributions were historically mapped to 1:100,000 mapsheets for fauna, and Botanic Division for flora. Fauna distributions were based upon a combination of existing records in the Atlas, literature and specimens from other Museum/Herbaria.

When four separate individuals had observed a species on the same 1:100,000 mapsheet, that mapsheet was added to the list of 'accepted distribution' maps for that species. However with many records accumulating in quarantine, the policy was revised in 2003 to address the increasing number of records of non-threatened species held in Quarantine allowing for a more 'blanket approach' for more common species.

In January 2007 the accepted distribution maps for threatened species were updated using the distributions derived from the threatened species profiles. These were based upon CMA subregion and, once incorporated into the Atlas, resulted in a mass removal of many species from quarantine.

5.4.3 How to determine if records you have entered have been saved to Quarantine

If your record fails validation you will **not** receive a pop-up message advising you of this. To determine if any records you entered have been saved to quarantine, you can either;

a. review each record after entry

You would realistically only do this if you had entered a couple of sightings that day.

To do this, click on the [Review](#) link button in the **Sightings added today** list (as circled below).

New Sighting

Fields marked with an asterisk (*) are mandatory.

Add Sighting

Sighting type* ☒ FAUNA ☐ FLORA

First date* 05/10/2012 Time 00 : 00

Common name*

Fauna code*

Observation* ☐ Observed ☐ Estimate

Number

Last date* 05/10/2012 Time 00 : 00

Scientific name*

Population

Source* ☐ Sighting only

Sex

Microhabitat types

- ☐ AC Flying above canopy
- ☐ BR In/on bridge
- ☐ BU In building
- ☐ CK Crevice in rock
- ☐ CL Crevice in log
- ☐ DA Farm/fire dam
- ☐ DT In dead tree (stag)
- ☐ EW Edge of water
- ☐ FC In/on post or stump
- ☐ FI Flying within canopy

Breeding types

- ☐ Not breeding
- ☐ A Adult
- ☐ D Distraction display
- ☐ E Eggs
- ☐ G Gravid
- ☐ I Immature
- ☐ J Juveniles
- ☐ L Lactating
- ☐ M Nesting
- ☐ N Nesting

Notes

External key

File location

Status

Validation flags

History

Date created

Created by

Date Updated

Updated by

Sightings added today

Results 1-1 of 1

Sighting key	Species code	Scientific name	Common name	First date	Location	Latitude	Longitude	
SDMP12100500	0705	Cracticus tibicen	Australian Magpie	05/10/2012	43 Bridge Street, Hurstville, New South Wales	-33.964388375	151.09466438	Review

b. review all records you have entered on a particular day

Where you have entered say more than 10 sightings on a particular day, refer to [Section 5.5.1 Open Sighting](#) for details on how to determine which (if any) have been saved to Quarantine.

For those records which have been saved to quarantine, it is important to know why they have failed validation. To review each record, click on the [Review](#) link button to open the sighting. You can then view the fields **Status** and **Validation flags**, to determine if the record is either;

- a **potential duplicate**, or
- located **outside of the species' accepted distribution**.

i. Potential duplicates

All potential duplicate records will be saved to Quarantine. In the **Sighting** tab folder, the **Status** appears as **Invalid, in quarantine** and the **Validation flags** field lists the reason, i.e. **DUP** (short for duplicate).

Status Invalid, in quarant

Validation flags DUP

ii. Outside of accepted distribution

All sightings where the location occurs outside of the 'accepted' range for that species, will be saved to Quarantine. In the **Sighting** tab folder, the **Status** appears as **Invalid, in quarantine** and the **Validation flags** field lists the reason **ACD** (short for accepted distribution).

Status Invalid, in quarant ▼
Validation flags ACD

5.4.4 How can staff have records removed from Quarantine?

If you enter a record that is saved to Quarantine, supply WDU with the:

- **sighting key**
- recommended **status** (i.e. the new status that the records should be changed to), and
- reason for change (i.e. the reason / evidence for change)

For single (or few) records, send as an e-mail. For large numbers of records (such as the results or a species or dataset review), send a file (dbf, excel or tab-delimited text) with the required details in additional columns.

E-mail this to the [WDU](#).

5.5 Open/edit an existing sighting

You can open specific sightings should you wish to either view the details of the particular sighting, or edit the information for a record you previously entered. Note that you would **only use this menu if you wish to view/edit a specific record**. If you were after all records of a particular species, or wanted to create an excel file of records, you would need to generate a report from the **Search** menu (refer to [Section 6](#)).

5.5.1 Open sighting

- To open a sighting, choose **Open sighting** from the **Atlas Sightings** drop-down menu.



In the **Open sighting** search box, you have the option to search on a particular **Sighting key**, **Location key**, **Species code**, or any combination of these.

Open sighting

Species ☒ All ☐ Fauna ☐ Flora Species code
 Sighting key Location key

If you type in all (or part) of the value, the database will only search on records that **begin** with the specified value for that field. Note that attempting to use the wildcard % to return all sightings may take considerable time, or may timeout. As only 100 records are displayed per page, it's not a recommended way to search for sightings - most commonly, you would know the **Sighting key** of the sighting you wish to open / edit.

- Select the appropriate **species type** (i.e. flora or fauna), type in the unique **Sighting key** and click on the button.

In the example below, the sighting displays in the result list.

Species ☐ All ☐ Fauna ☒ Flora Species code
 Sighting key Location key
☐ Exact Match

Results 1-1 of 1

Sighting key	Species code	Common name	Scientific name	Location key	First date	Status
SDMP02111900	4554	Cobra Greenhood	Pterostylis grandiflora	LDMP02111900	21/06/2002 00:00:00	Valid and accepted without modification Review

- Click on the [Review](#) button to open the sighting.

The sighting will open in the existing Atlas window, displaying the **Sighting** tab folder.

Edit Sighting

[Back to search](#)

Observer(s) **Location** **Sighting** Reference Datasource

Fields marked with an asterisk (*) are mandatory.

Sighting Key

Update Sighting

Sighting type* ☒ FAUNA ☐ FLORA
 First date* Time :
 Last date* Time :
 Common name* Scientific name*
 Flora code* Population
 Observation* Source*
 Number Estimate
 Growth habit

Breeding types

- ☒ FL Flowering
- ☐ BU Flower Buds
- ☐ FR Fresh Fruit
- ☐ N No Breeding Evident
- ☐ OF Old Fruit
- ☐ SD Seeds
- ☐ SE Seedlings Present
- ☐ Y Breeding Present, but not specified

Notes

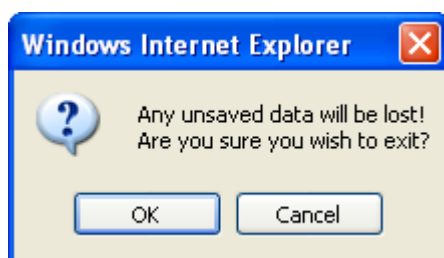
History

Date created	19/11/2002 15:30:26
Created by	Deyarne Plowman
Date Updated	19/11/2002 15:47:13
Updated by	Atlas Conversion

External key
 File location
 Status
 Validation flags

- Once you have finished reviewing the sighting, click on the [Back to search](#) button.

A Windows Internet Explorer pop-up will appear warning you that any changes you have made will be lost (note that this message displays regardless of whether you have made changes or not).

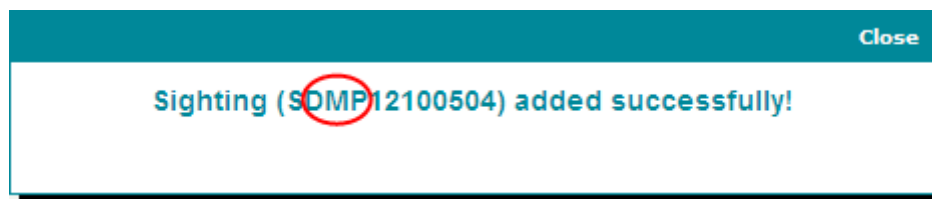


- Click on the [OK](#) button.

You will be returned to the **Open sighting** page with your previous search results listed.

Open sightings entered on a particular day to determine if any had been saved to Quarantine

If you wish to review all sightings you have entered on a particular day, you need to know the 3 unique Atlas letters assigned to your login. These are contained within the sighting key for all records that you enter (as shown circled in the sightings added successfully window over the page).



The key **SDMP12100504** is broken down as follows;

'S' refers to a Sighting

'DMP' are the unique user initials for my Atlas account

'121005' refers to the date, in the format YYMMDD

'04' is the unique code used to differentiate records entered on the same day. The first record is automatically assigned the last two characters '00', so '04' refers to the fifth record entered that day. Note that after '09' the characters incorporate letters, e.g. 0A, 0B, 0C etc, proceeding through the alphabet.

- To search on records entered on a particular day, in the **Open sighting** window enter the first 10 characters of the sighting key into the Sighting key field.

The following example will search on all records that I have entered on 5th October 2012.

Open sighting

Species ☒ All ☐ Fauna ☐ Flora Species code
 Sighting key Location key

- Click on the button.

The results contain a **Status** column which indicate which records have been saved to Quarantine i.e. **Invalid, in quarantine**

Open sighting

Species	<input checked="" type="radio"/> All <input type="radio"/> Fauna <input type="radio"/> Flora	Species code	<input type="text"/>				<input type="button" value="Search"/>
Sighting key	<input type="text" value="sdmp121005"/>	Location key	<input type="text"/>				
Results 1-5 of 5							Show all results
Sighting key	Species code	Common name	Scientific name	Location key	First date	Status	
SDMP12100500	0705	Australian Magpie	Cract cus tibicen	LBDH11042700	05/10/2012 00:00:00	Valid and accepted without modification	Review Remove
SDMP12100501	1008	Spotted-tailed Quoll	Dasyurus maculatus	NSW35307	04/10/2012 00:00:00	Invalid, in quarantine	Review Remove
SDMP12100502	1008	Spotted-tailed Quoll	Dasyurus maculatus	NSW35307	03/10/2012 00:00:00	Invalid, in quarantine	Review Remove
SDMP12100503	0705	Australian Magpie	Cract cus tibicen	NSW35307	05/10/2012 00:00:00	Valid and accepted without modification	Review Remove
SDMP12100504	3698	Harrow Wattle	Acacia acanthoclada	NSW35307	05/10/2012 00:00:00	Invalid, in quarantine	Review Remove

- From here, click the [Review](#) link button for and records with the Status marked '**Invalid, in quarantine**', to determine the reason they have been saved to Quarantine (i.e. either 'out of accepted range', or 'potential duplicates')

The following example highlights a record with the record has been saved to Quarantine because it is flagged as occurring outside of the known accepted distribution.

Edit Sighting Back to search

Observer(s) Location **Sighting** Reference Datasource

Fields marked with an asterisk (*) are mandatory.

Sighting Key
SDMP12100501

Update Sighting

Sighting type* ☒ FAUNA ☐ FLORA
 First date* 04/10/2012 Time 00 : 00
 Common name* Spotted-tailed Quoll
 Fauna code* 1008
 Observation* Number Estimate
 Last date* 04/10/2012 Time 00 : 00
 Scientific name* *Dasyurus maculatus*
 Population
 Source* Sighting only
 Sex

Microhabitat types
☐ AC Flying above canopy
☐ BR In/on bridge
☐ BU In building
☐ CK Crevice in rock
☐ CL Crevice in log
☐ DA Farm/fire dam
☐ DT In dead tree (stag)
☐ EW Edge of water
☐ FC In/on post or stump
☐ FI Flying within canopy

Breeding types
☐ - Not breeding
☐ A Adult
☐ D Distraction display
☐ E Eggs
☐ G Gravid
☐ I Immature
☐ J Juveniles
☐ L Lactating
☐ M Nestling
☐ N Nesting

Notes

External key
 File location
 Status Invalid, in quarantine
 Validation flags ACD

History
 Date created 05/10/2012 14:42:16
 Created by Deyame Plowman
 Date Updated 05/10/2012 14:42:16
 Updated by Deyame Plowman

Update Sighting Specimen

- After reviewing your record, notify the WDU regarding the appropriate action for this record.

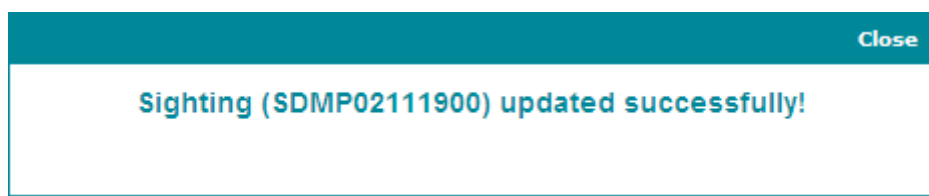
5.5.2 Edit sighting

While you can view all sightings, you can only edit those records which are attached to a dataset for which you have edit access to. And even then, you should generally only ever edit a sighting which either you have entered or are the observer for, or if there is an obvious typo which is straightforward to correct.

You can edit details within any of the tab folders.

- If you wish to edit details within the **sighting tab folder** save the changes by clicking on the Update Sighting button.

A pop-up will advise you that the sighting has been updated successfully.



- If you wish to edit any of the details within the **observer(s), location or reference tab folders**, a windows Internet warning message will pop up advising you that the Observer/Location/Reference may be attached to other sightings and any changes you make will affect those sightings.
- Note that if you edit the observer(s), location, reference or datasource tab folders, (but nothing in the **Sighting** tab folder) you would still need to click on the Update Sighting button in the Sighting tab folder to re-validate the sighting against any new details.

Also note that each time you edit the spatial details of a sighting (i.e. the details within the Georeference box in the Location tab folder), the database will re-validate the sighting. Depending on the changes, this may result in a quarantined record being automatically accepted from quarantine, or it could result in a valid record being saved to quarantine.

5.6 Data entry (import spreadsheet)

5.6.1 Background

To facilitate validation and import of datasets collected pursuant to a Scientific Licence, the Atlas offers the functionality to submit records online via the **Import spreadsheet** menu.

The process for submitting data covers 4 steps:

- a. enter records into the spreadsheet, then save as a comma separated file (.csv)
- b. log into Atlas and submit the file
- c. review the online validation to ensure the submission was successful, or
- d. if prompted, address any fields requiring further validation and re-submit the file until the submission is successful.

The data will be stored in a 'waiting area' of Atlas. Only those files that have been successfully submitted will be reviewed by the WDU, to review and authorise the import.

Important advice around submitting records for import

1. Choose how frequently you wish to submit data. While datasets have historically been collated and submitted on a yearly basis (to coincide with the SL renewal), please note that you can submit data as frequently as you wish. You may choose to enter your "full" dataset as a single file (at the time of your SL renewal); or as multiple files over time as the data is collected. Just make sure you enter your Scientific licence number in the relevant field on the submission form whenever you submit a file. And please keep a record of file names and dates of submission, in order to notify Wildlife Licensing when your Scientific Licence is next due for renewal.

2. Only submit datasets once*. Please only submit new sightings once. This applies to both;

a) records you have previously submitted. If, for example, you have decided to keep all of your records for the year in a single spreadsheet and you decide to submit records periodically throughout the year (at the end of each project, for example), please only submit the new records. Submitting the same records twice will be flagged as duplicates, but only after unnecessary effort by WDU staff.

b) records that someone else has collated for you under their Scientific Licence. The general rule here would be that the individual who has collected records pursuant to their Scientific Licence is responsible for collating and submitting the records themselves. If, for whatever reason, you have agreed to submit the records on their behalf (such as in the case that you have sub-contracted them to do the survey for you), then if the agreement between both of you is that you shall submit the records, please be clear to ensure that only one of you submits the records and also clearly advise Wildlife Licensing of this at the time of the Licence renewal.

*Note that this does not apply to datasets you submit online that fail validation due to missing/erroneous values. Datasets may need to be submitted several times until they pass validations

3. Advise WDU ASAP regarding any valid submissions that should not be imported. If, for example, you have successfully submitted a file online (i.e. Status = 'Ready for import') but you later realise that it is the wrong dataset you meant to upload (e.g. duplicate, or contains missing details etc), then please e-mail WDU asap with the file name and date of submission, so that we can flag the file as 'not for import'. Any datasets with a Status of 'Invalid' will not be reviewed or imported by WDU, so there is no need to advise WDU of such datasets.

5.6.2 Enter records into the 'AtlasDatasheet.xls' file.

The following outlines guidelines for entering details of your species records into the spreadsheet.

- Save a copy of the file '[AtlasDatasheet.xls](#)' to your local/share drive. Note that the file is over 9MB, due to the embedded formulae and reference data. It will substantially reduce in size once you are prompted to re-save it in a different format (i.e. as a .csv file).
- Open the **AtlasDatasheet.xls** file. Note that there are 2 worksheets;

a. **Sighting records** – this is where all the sightings details are entered.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1			Species			Date		Number										
2	Index	Type	Species Code	Common Name	Scientific Name	First Date	Last Date	Count	Estimate Code	Sex Code	Breeding Type	Source Code	Datum	GPS	Zone	Easting	Northing	Latitude
3	Sequential number	Fauna (FA) or flora (FL)	Species code can be assigned by OEH, or see the reference worksheet.			Date of sighting (dd/mm/yyyy hh:mm)	If more than 1 day (dd/mm/yyyy hh:mm)	Count of individuals	Accuracy of count. See reference worksheet for definitions.	See reference worksheet for definitions.	Field accepts multiple codes. See reference worksheet for values and definitions.	Source of the sighting, automatically populated as '4 - sighting'. After if specimen lodged or sighting is questionable (e.g. Anabat). See reference worksheet for definitions.		Was a GPS used?	Enter one co-ordinate type only (i.e. Zone/Easting/Northing)			
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
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26																		
27																		
28																		
29																		
30																		
31																		
32																		

Details of each field and the input requirements are contained in Table 8.

- b. **Reference** – this contains the codes and descriptions for each of the fields in the **Sighting records** worksheet. The **reference** worksheet is needed to ensure validation (on entry into the excel file) of values in the **Sighting records** worksheet.

	A	B	C	D	E	F	G
1	Type	Description	Fauna Scientific Name	Fauna Species Code	Fauna Common Name	Flora Scientific Name	Flora Species Code
2	FA	Fauna	(Microchiroptera suborder) (Microchiroptera suborder)	1202	Unidentified Microbat	Aberea grandiflora	5694
3	FL	Flora (includes Abies sp.)		1354		Aberea hendersonii	5695
4			Abrotheca pleurostoma	1235		Aberea muelleriana	5696
5			Alcedo curvirostris	1915	Floury biter	Aberea togoloides	5697
6			Acalyptophis peronii	5276	Horned Seal snake	Aberea sp.	AD4R
7			Acanthagenys rufogularis	1640	Spry-cheeked Honeyeater	Abelia chinensis	11097
8			Acanthis flammula	10790	Common Redpoll	Abelia torbunda	11707
9			Acanthis flammula cabaret	8686		Abelia spp.	ABE1
10			Acanthis spialis	1478	Island Thornbill	Abelia x grandiflora	10755
11			Acanthis spialis albertensis	8079		Abelia x grandiflora	13665
12			Acanthis spialis spialis	8235		Abelmoschus manihot	5670
13			Acanthis spialis chrysanthos	8236		Abelmoschus manihot subsp. manihot	11038
14			Acanthis spialis whitioi	1477		Abelmoschus moschatus	5624
15			Acanthis chrysanthos	1490	Yellow-rumped Thornbill	Abelmoschus moschatus subsp. moschatus	5670
16			Acanthis chrysanthos chrysanthos	1047		Abelmoschus spp.	ABEL
17			Acanthis chrysanthos leachi	8246		Abies spp.	13700
18			Acanthis chrysanthos leighi	8245		Abidgardia ovalis	5658
19			Acanthis chrysanthos normani	8244		Abidgardia vaginalis	5186
20			Acanthis ewingi	1473	Tasmanian Thornbill	Abrophyllum ovum	5200
21			Acanthis ewingi ewingi	8237		Abrotanella virgata	11246
22			Acanthis ewingi ruficeps	8238		Abrotanella spp.	ABRO
23			Acanthis normata	1472	Western Thornbill	Abus precatorius	7212
24			Acanthis redalei	1462	Slender-billed Thornbill	Abus precatorius subsp. africanus	12970
25			Acanthis redalei redalei	1463		Abus precatorius subsp. precatorius	10692
26			Acanthis redalei redalei	8243		Abus spp.	ABRU
27			Acanthis redalei rostratus	8242		Abutilon calophyllum	5625
28			Acanthis rostratus	1474	Mountain Thornbill	Abutilon cryptopetalum	5626
29			Acanthis lineata	1470	Striated Thornbill	Abutilon fraseri	5627
30			Acanthis lineata alberti	8241		Abutilon grandifolium	5628
31			Acanthis lineata clelandi	1253		Abutilon halophilum	5629
32			Acanthis lineata lineata	1252		Abutilon leucopetalum	5630
33			Acanthis lineata whitei	8244		Abutilon macrodon	5631
34			Acanthis nana	1471	Yellow Thornbill	Abutilon macrodon	5631
35			Acanthis nana flava	8248		Abutilon discarpum	5632
36			Acanthis nana modesta	8249		Abutilon discarpum	5632
37			Acanthis nana nana	8249		Abutilon discarpum var. discarpum	5632
38			Acanthis pusilla	1475	Brown Thornbill	Abutilon discarpum var. subsp. subsp.	7920
39			Acanthis pusilla archibaldi	8225		Abutilon pictum	12201
40			Acanthis pusilla dawsonensis	8221		Abutilon spp.	ABUL
41			Acanthis pusilla demissa	8223		Abutilon theophrasti	5633
42			Acanthis pusilla pusilla	8222		Abutilon tubulosum	5634
43			Acanthis pusilla zellii	8224		Acacia acanthoclada	5698
44			Acanthis regalis	1464	Buff-rumped Thornbill	Acacia acanthoclada subsp. acanthoclada	12145
45			Acanthis regalis regalis	8241		Acacia acanthoclada	5699

- Enter the details of your species into the spreadsheet. Before referring to Table 8 for descriptions and requirements of individual fields, please review the following steps which outline the overall guidelines around data entry;

Only a few fields in the **Sighting records** worksheet are mandatory. These are highlighted in yellow. The first two mandatory fields are shown below.

	A	B	C	D	E	F	G
1			Species			Date	
2	Index	Type	Species Code	Common Name	Scientific Name	First Date	Last Date
3	Sequential number.	Fauna (FA) or flora (FL).	Once Type and Scientific Name fields are entered, if the name currently exists in the Reference worksheet, the Code will be auto populated.	Once Scientific Name and Type are entered, Common Name will be automatically populated (if applicable).		Date of sighting (dd/mm/yyyy hh:mm).	If more than 1 day (dd/mm/yyyy hh:mm).
4							
5							
6							
7							

Once data is entered into these fields in the correct format, the cells will automatically become white, as shown below.

	A	B	C	D	E	F	G
1			Species			Date	
2	Index	Type	Species Code	Common Name	Scientific Name	First Date	Last Date
			Once <i>Type</i> and <i>Scientific Name</i> fields are entered, if the name currently exists in the <i>Reference</i> worksheet, the Code will be auto populated.	Once <i>Scientific Name</i> and <i>Type</i> are entered, <i>Common Name</i> will be automatically populated (if applicable).			
3	Sequential number.	Fauna (FA) or flora (FL)				Date of sighting (dd/mm/yyyy hh:mm).	If more than 1 day (dd/mm/yyyy hh:mm).
4		FL	3816		Acacia longifolia	28/08/2012 00:00	
5							
6							
7							
8							

There are different requirements for entry into cells, dependent on the field;

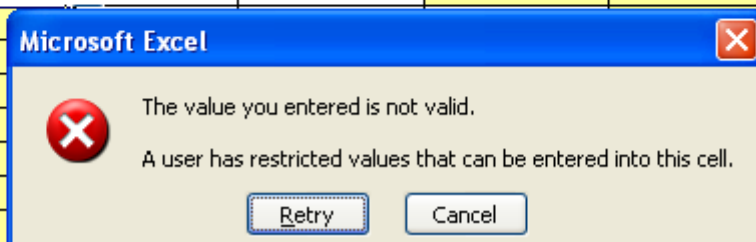
- Some fields require **a value to be selected from a pre-determined list**. For example clicking in the cell will display a drop down arrow, which when clicked on, displays the full set of value options, such as illustrated for the field **Type**, shown below.

	A	B	C
1			
2	Index	Type	Species Code
			Once <i>Type</i> and <i>Scientific Name</i> fields are entered, if the name currently exists in the <i>Reference</i> worksheet, the Code will be auto populated.
3	Sequential number.	Fauna (FA) or flora (FL)	
4			
5		FA	
6		FL	
7			

In these cases, you can either select the appropriate option from the drop-down list. Or alternatively, you could type in the value.

Note that if you enter a value into a field with a drop-down menu that is not contained in the pre-defined list of values (e.g. typing the value *Fauna* into the *Type* field), the following error message pop-up will display;

	A	B	C	D	E	F
1			Species			Date
2	Index	Type	Species Code	Common Name	Scientific Name	First Date
3	Sequential number.	Fauna (FA) or flora (FL).	Once <i>Type</i> and <i>Scientific Name</i> fields are entered, if the name currently exists in the <i>Reference</i> worksheet, the Code will be auto populated.	Once <i>Scientific Name</i> and <i>Type</i> are entered, <i>Common Name</i> will be automatically populated (if applicable).		Date of sighting (dd/mm/yyyy hh:mm).
4		fauna				
5						
6						
7						
8						
9						
10						
11						
12						



Click either button and select the appropriate value from the drop-down list.

- b. Some cells do not have drop-downs, but still require **values to be entered with a certain format**. For example, the date field must be entered in the format dd/mm/yyyy and must be greater than 01/01/1770 and less than the date of data entry.

Entering a value which does not match the requirements for that field, will highlight the cell red, as shown below.

	Date		#
Scientific Name	First Date	Last Date	Count
	Date of sighting (dd/mm/yyyy hh:mm).	If more than 1 day (dd/mm/yyyy hh:mm).	Count of individuals (numeric).
	01/01/1600	01/01/2015 00:00	
	January this year		

You will need to edit the values to the correct format before the cell will display as white.

- c. Some cells allow **free text**, such as the *Notes*, *Specimen Rego* and *External Key* fields as well as fields that allow multiple values (e.g. *Breeding codes*). Keep in mind that while these cells may allow you to type anything into the cell in the excel file (without highlighting red), you still need to be mindful of entering a value in an acceptable format. In the case of *Breeding codes* this would involve referring to the values in the

reference worksheet to ensure you enter the correct code(s). In the case of fields such as *Notes*, *Specimen Rego* and *External Key*, this means ensuring that the text does not exceed the maximum cell length. Exceeding the maximum allowed length for the cell will result in a truncation of data post import. Table 8 contains details of the required format for all fields.

d. Some cells become **mandatory in certain conditions**, such as;

- after a value has been entered into a related field (e.g. entering a value into the *Specimen Rego* field will cause the *Specimen location* field to highlight yellow (and vice versa)). Note that this particular example will also cause the *Source code* field to highlight red, prompting you to change the value to indicate where the specimen has been lodged (a public or private museum or herbarium).

TIPS and TROUBLESHOOTING when entering values into the AtlasDatasheet.xls

1. When entering sighting details, always enter the first record into Row 4 and do not skip any rows or enter values unrelated to sightings into other cells elsewhere in the spreadsheet.
2. If you add a value with a **single apostrophe** in the **Title** or **Notes** fields, the apostrophe will be exported and stored as a question mark in the database. If practical, please refrain from using apostrophe's in these fields.
3. When entering values into some cells, you may notice that sometimes the value appears to repeat on itself. Please note that this issue does not affect the cell (check the cell formulae bar to see that only the characters you have typed in display exactly as entered).
4. If you are copying across data from old excel files, into the new 'AtlasDatasheet.xls' file, please be aware that there may be an issue with the **First Date** and **Last Date** fields whereby the dates are re-formatted to numeric (and as a result no longer resemble the date). Please keep this in mind and check the date fields in 'AtlasDatasheet.xls' after pasting values from other files.
5. Always enter new datasets into the **.xls** file, to ensure appropriate validation (i.e. not the **.csv** file). Entering new records into the **.csv** file will compromise the inbuilt validations. Editing the **.csv** file converts the species code field to numeric, thereby removing the ability to store leading zeros resulting in many species codes being submitted in error.

Figure 4 - Tips and troubleshooting when entering values into the AtlasDatasheet.xls

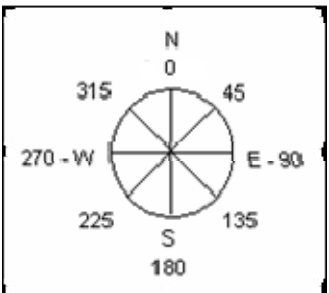
Only after there are no red or yellow cells, is the file ready for submission to import.

Table 8 contains descriptions for each of the fields in the Atlas spreadsheet, and the required format for entry. Mandatory fields are highlighted in bold. (Refer to the footnote for an explanation of the asterisk).

Table 8 - Import spreadsheet fields

	Field	Description	Required format
	Index	A sequential number.	Integer.
	Type	Distinguishes fauna (FA) from flora (FL) species. Note that fungi is included under FL.	Select from drop-down list.

Species	Species Code	A unique code attributed to an individual species, genus, or family. Codes can be obtained from the Census of Australia Vertebrate Species (CAVS) and Census of Australian Plant Species (CAPS) library fields. Please note that entry of codes is not required as this can be calculated by WDU, so long as the species Scientific and/or Common name is provided.	Unique letter/number (see CAVS and CAPS lists).
	Common Name*	The common name by which the species is known.	Free text, up to 80 characters.
	Scientific Name**	The scientific name by which the species is known.	Free text, up to 80 characters.
Date	First Date	The date the species was sighted. Time is optional.	dd/mm/yyyy hh:mm. >= 01/01/1770.
	Last Date	For species recorded on a specific day, you can leave this field blank (it will be automatically populated with the value from the <i>First Date</i> field). For species recorded over a period of time (e.g. during a survey conducted over a week, or where an approximate date was given), enter the <i>Last Date</i> .	dd/mm/yyyy hh:mm. Later than or equal to First Date, and <= date of data submission.
Number	Count	The total number of individuals.	Integer, > 0.
	Estimate Code	The accuracy of the <i>Count</i> (e.g. exact, estimate, more than, or less than).	Select from drop-down list.
	Sex Code	The sex of the species.	Select from drop-down list.
	Breeding Code	Details of the Breeding status of the species. See <i>Reference</i> worksheet for available values and definitions. Note different breeding codes for fauna versus flora.	Multiple codes separated by either; <ul style="list-style-type: none"> • comma, • comma and space, • space, • semicolon, or • semicolon and space. Total character length <= 100.
	Source Code	Source distinguishes standard sightings from those held at public or private collections. The default value for this field is set to <i>Sighting only</i> , which will be automatically populated once a value is entered into the <i>Type</i> field. You only need to change the value if a specimen was taken (i.e. either Specimen with public museum or herbarium or Specimen with other collection), or if there is some uncertainty around the identification, particularly in the case of Anabat records (i.e. Sighting – probable ID or Sighting – possible ID). See reference worksheet for values and definitions.	Select from drop-down list.
Location***	Datum	Defines the coordinate system. Refer to the Geoscience Australia website for an explanation of datums; www.ga.gov.au/earth-monitoring/geodesy/geodetic-datums/about.html	Select from drop-down list.
	GPS	Whether a Global Positioning System (GPS) was used to obtain the coordinates.	Select from drop-down list.
	<i>Coordinates are a reference for any point on the earth's surface and can be supplied as either Projected (Zone, Easting, Northing) or Geographic (Latitude, Longitude).</i>		
	Zone	<ul style="list-style-type: none"> • Zone 56 is 150 ° – 156 ° longitude, which encompasses much of eastern NSW. • Zone 55 is 144 ° – 150 ° longitude. 	Select from drop-down list.

	<ul style="list-style-type: none"> Zone 54 is 138° – 144° longitude, encompassing most of Western NSW. Zone 57 covers Lord Howe Island. 	
Easting	The reference in metres, measured east of an arbitrary origin (also referred to as the x-coordinate).	A six digit number, with up to four decimal places.
Northing	The reference in metres, measured north of an arbitrary origin (also referred to as the y-coordinate).	A seven digit number, with up to four decimal places.
<i>Readings of latitude and longitude can either be provided as degrees, minutes, seconds or as decimal degrees. Decimal degrees are the preferred format.</i>		
Latitude	The position South of the Equator, measured in decimal degrees.	>= -40, <= -20.
Longitude	The position East of the Greenwich meridian, measured in decimal degrees.	>= 138, <= 162.
Latitude Degrees		Integer, >= -40, <= -20.
Latitude Minutes		Integer, between 0 and 60
Latitude Seconds		Numeric, between 0 and 60
Longitude Degrees		Integer, >= 138, <= 162.
Longitude Minutes		Integer, between 0 and 60
Longitude Seconds		Numeric, between 0 and 60
Accuracy	How accurately the coordinates represent the exact location of the species (in metres). For example a value of 100 would mean that the location is accurate to the nearest 100 metres.	Integer, >= 1 and <= 100,000, with no more than four decimal places.
Location Description	Detailed description of the geographic location, such as street, nearest cross street, town, landmark or reserve.	Free text, no character limit.
Altitude	The height of the location from sea level, in metres	Integer, >= 0 to <= 2500.
Geology Code	See reference worksheet for <i>Geology</i> values and definitions.	Select from drop-down list.
Vegetation Code	See reference worksheet for <i>Vegetation Code</i> values and definitions.	Select from drop-down list.
Slope	Measured in degrees, from the horizontal.	Integer, between 0 and 90.
Aspect	<p>Measured in degrees, starting from zero as North and then going in a clockwise direction. E.g. East = 90</p> 	Integer, between 0 and 359.
Location Notes	Enter any additional notes regarding the location that do not fit within any of the other existing (location related) fields.	Free text, no character limit.
Observer	Name of the person who recorded the species.	Multiple names allowed,

	Name		separated by any delimiter (i.e. space, comma, semicolon etc). Free text, up to 500 characters.
Specimen details****	Specimen Rego	The <i>Specimen Rego</i> refers to the unique registration number assigned by the Herbarium/Museum where the specimen is lodged. Note that this is <i>not</i> the Inquiry number. If the specimen number is not available at the time of submitting your record to the Atlas, write 'not provided' and you can forward the Registration after you receive it.	Free text, up to 40 characters.
	Specimen Location	If a specimen has been lodged at a Herbarium or Museum select the <i>location</i> .	Select from drop-down list.
	Note: After entering specimen details, please update the <i>Source</i> field by selecting the appropriate value, either; <ul style="list-style-type: none"> • 1 - Specimen with Public Museum or Herbarium, or • 2 - Specimen with Other Collection 		
	External Key	Observers' own unique reference number.	Free text, up to 30 characters.
	Notes	Enter any additional details regarding the species that could not be entered into any of the other existing (species related) fields.	Free text, no character limit.
	Observation Type****	(<i>For fauna only</i>) Refers to how the species was observed (e.g. observed, heard, scat). If more than one observation type was recorded, select the most reliable observation type here, and then enter additional values in the <i>Notes</i> field.	Select from drop-down list.
	Microhabitat Type	Small-scale habitat, e.g. <i>on ground</i> or <i>in tree</i> . See reference worksheet for <i>Microhabitat type</i> values and definitions.	Multiple codes separated by either; <ul style="list-style-type: none"> • comma, • comma and space, • space, • semicolon, or • semicolon and space. Total character length <= 100.
Height	Lower Height	The height (in metres) of the shortest plant.	Number, up to two decimal places. Must be less than the Upper height value.
	Upper Height	The height (in metres) of the tallest plant.	Number, up to two decimal places. Must be greater than the Lower height value.
	Growth Habits	Whether the plant is a tree, herb, fern etc.	Select from drop-down list.
Reference*****	Title	If the record is sourced from or being included within a report, include the <i>Title</i> of the publication.	Free text, up to 500 characters.
	Author(s)	Author(s) of the publication.	Free text, up to 255 characters.
	Publisher Name	Name of publisher.	Free text, up to 60 characters.
	Year of Publication	Year of publication.	Integer, >= 1770.
	Type of Publication	Type of publication (e.g. journal, book etc)	Select from drop-down list.

	City of Publication	City of publication.	Free text, up to 30 characters.
	Name of Book	Name of book.	Free text, up to 150 characters.
	Name(s) of Editor	Name(s) of Editor.	Free text, up to 60 characters.
	Volume of Publication	Volume, and (if applicable) page numbers (e.g. 4:23-35)	Free text, up to 30 characters.

Fields in bold are mandatory

* *Common Name* is required for fauna, where the *Scientific Name* is not supplied. *Common Name* is not required for flora.

** *Scientific Name* shall be required for fauna, where *Common Name* is not supplied. *Scientific Name* is required for flora.

*** If *Specimen Rego* is provided, *Specimen Location* must be provided, and vice versa.

**** If *Zone*, *Easting* and *Northing* are not supplied; *Latitude* and *Longitude* OR *Latitude Degrees*, *Latitude Minutes*, *Latitude Seconds* and *Longitude Degrees*, *Longitude Minutes*, *Longitude Seconds* are required.

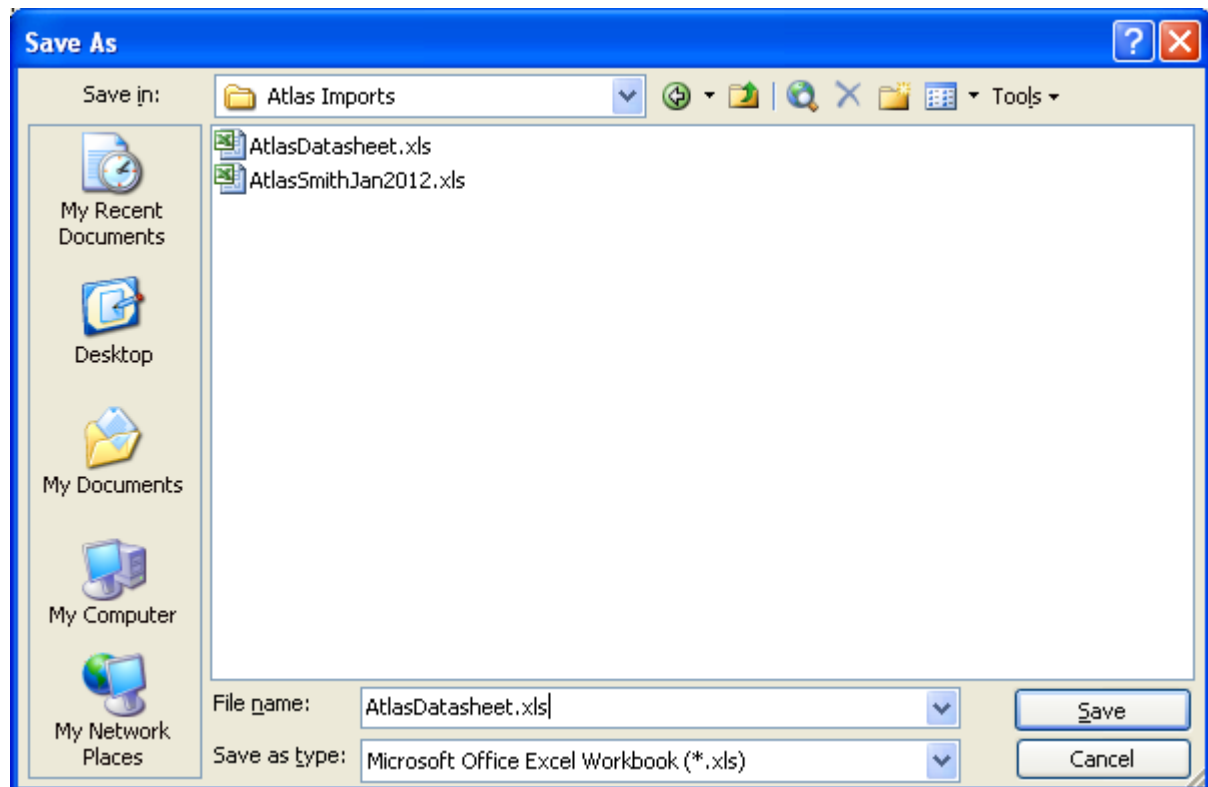
***** If any of the fields in Reference section are supplied, the fields *Title*, *Author(s)*, *Type of Publication* and *Year of Publication* are required.

5.6.3 Submit your file for import

Once all sighting details have been entered you are ready to submit your file for import. You will first need to save your file in the correct format (a comma separated file; .csv)

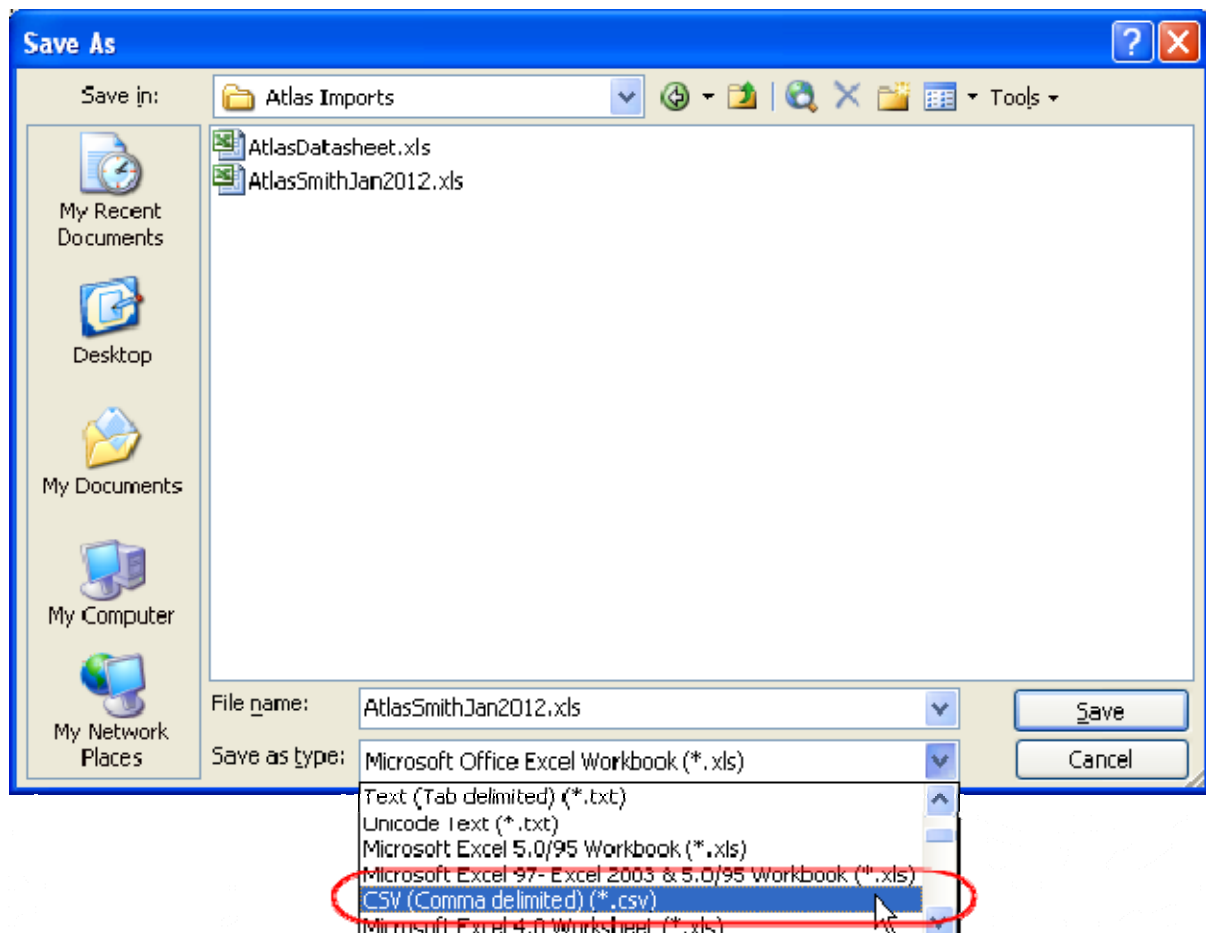
- In Excel, make sure the ***Sighting records*** worksheet is the worksheet in your current view.
- Select the **Save As** option from the **File** drop-down menu.

A **Save As** pop-up will appear.



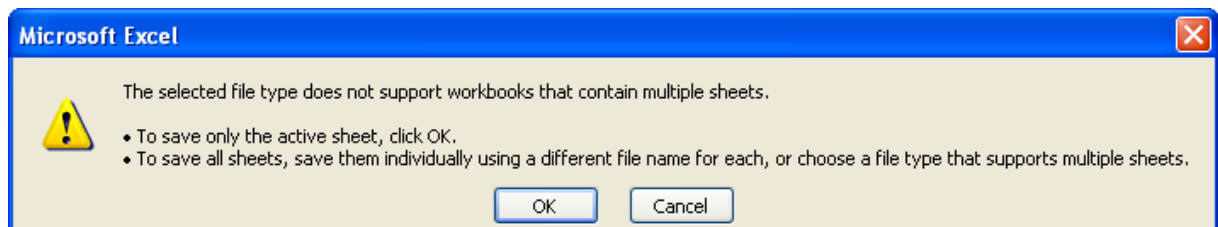
- In the **Save As** pop-up, select the file type **.csv** from the **Save as type** drop-down menu.

Note that this will only save the worksheet in your view, the **Sighting records** worksheet (so make sure this is your current worksheet).



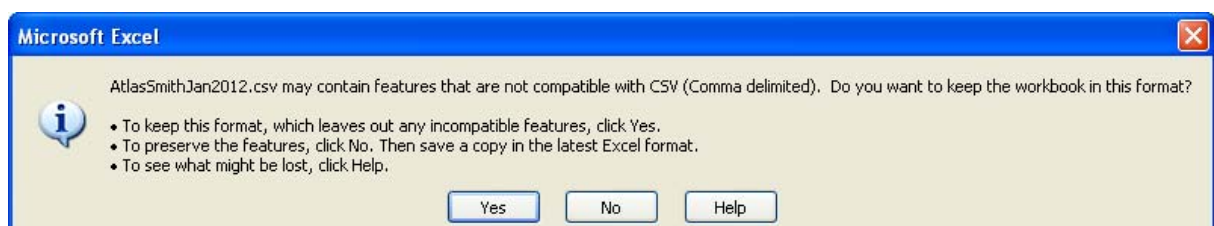
- Change the filename to whatever is meaningful for you.
- Click **Save**.

A pop-up will display advising you that **.csv** files can only save the active sheet.



- Click **OK** (as you no longer need the *Reference* worksheet).

A second pop-up will now display advising you that the file may contain features that are not compatible with CSV.



- Click **Yes**.

The pop-up closes and the file has been saved.

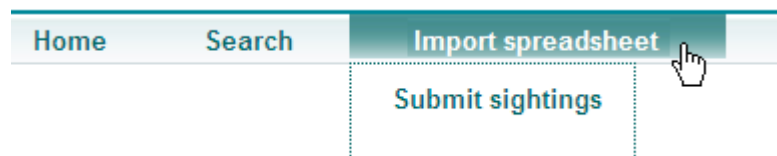
Note that because the **Reference** worksheet is not stored in your **.csv** file, the file size will be considerably smaller.

Your file is now ready to be uploaded via Atlas for submission.

- **Login to the Atlas** using your secure login (refer to [Section 4.1](#) for assistance).

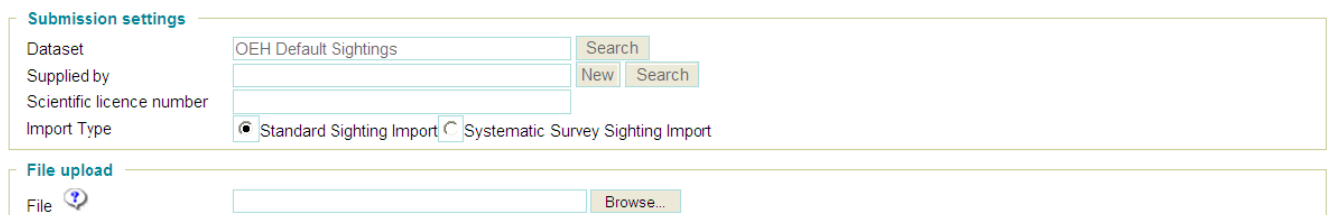
In the heading banner, note the menu heading titled **Import spreadsheet**.

- Move your mouse over the **Import spreadsheet** menu to display the selection **Submit sightings**.



A **Submit sightings** page will display.

Submit sightings



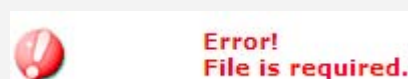
The five fields available to populate are;

- Dataset**
- Supplied by**
- Scientific licence number**
- Import type**
- File**

Following is advice for making selections at each of these steps.

WARNING Unfortunately the submit function under the **Import spreadsheet** menu option does not currently work at all using **Firefox**.

If you are using **Chrome** and **Opera**, using the **enter** key after typing in text (instead of clicking on the **Search** key) will cause the application to submit your file for Import before you are able to enter values into the other fields. The following error message will return:



Please ensure you click on the **Search** button.

a. Dataset

Records in the Atlas are grouped according to datasets to which they belong. In order to enter and edit records, users will need to have access to specific datasets. Note that you can have access to multiple datasets, but one dataset will be your default. Your default dataset and additional datasets to which you have access to, are maintained at your account level (by the WDU).

The default dataset to which all files you submit for import OEH should be set to **OEH Default Sightings**. If this field is blank, or a different dataset displays, you will need to search on the OEH Default Sightings dataset. Keep in mind that records collected as part of a systematic survey should always be entered via the appropriate survey module.

Table 9 summarises the name of the Dataset to which different Users should be submitting (non-survey) files to for Import.

Table 9 - Name of Dataset to which digital files are to be submitted under, dependant on User role

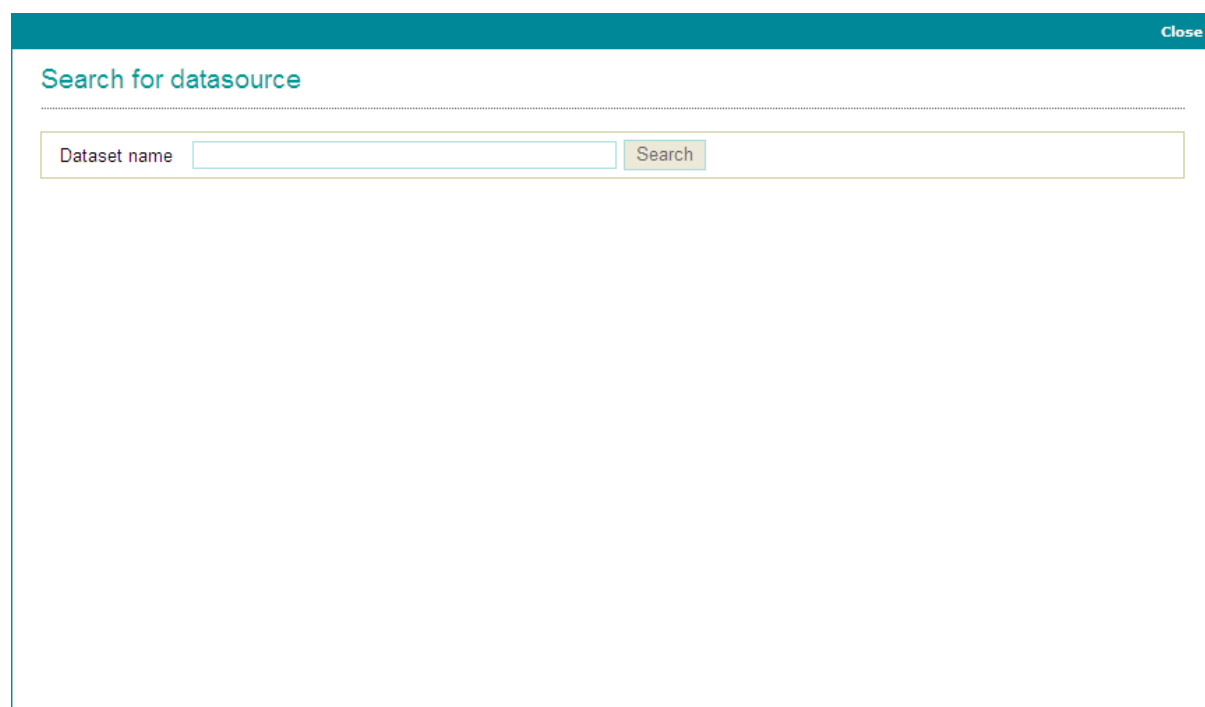
User	Name of Dataset that imported records are to be assigned to
OEH staff	OEH Default Sightings
Licensed Users	OEH Data from Scientific Licences dataset
Registered Users	OEH Data from Scientific Licences dataset

Note: If you have a specific reason why your file should be attached to a different dataset, please discuss this with WDU staff in the first instance.

Where **OEH Default Sightings** does **NOT** appear by default in the Dataset box, please do the following;

- Click on the  button.

A **Search for datasource** pop-up window will display, allowing you to search on all Dataset names linked to your account.



- Type in all (or part) of the **Dataset name** and click on the  button.

Alternatively, you can also use the wildcard % to search on all datasets that you have edit access to.

Close

Search for datasource

Dataset name Search

Results 1-2 of 2

Dataset name	
OEH Default Analyses	Select
OEH Default Sightings	Select

Note: The resulting list may vary depending on the particular datasets that you have been given edit access to.

- In the resulting list of datasets, select the appropriate dataset name by clicking on the [Select](#) link button.

This will close the **Search for datasource** pop-up and insert the selected dataset name into the **Datasource** tab folder.

b. Supplied by

The supplied by field allows you to identify the name of the 'owner' of the dataset. In most cases this will be you (i.e. the observer of the records). Note that if you are submitting a file on behalf of someone else, please select their name.

- In the **Supplied by** field, click on the Search button.

A **Search for Observer** pop-up will display.

Close

Search for observer

Surname

Given name(s)

- Type in all (or part) of your **Surname** and/or **Given name(s)**.
- Click the Search button.

All names that match your search criteria will display. Note that the names available for you to search on, are restricted based upon your login details (i.e. while OEH staff will have access to the complete list of contact names, users external to OEH will only have access to a subset of contact names relevant to their organisation)

Close

Search for observer

Surname

Given name(s)

Results 1-3 of 3

Surname	Given name(s)	Address	City	Phone	Email		
Plowman	D.	RBG Collector				Select	
Plowman	Deyarne	c/o- NPWS, GISDivision, HO	Hurstville NSW	(02) 9585 6688		Select	
Plowman	T.	RBG Collector				Select	

- If there are multiple names that match your search criteria, you can click on the button.

A pop-up displays with additional contact details for the observer.

User key:	ODMP97080700
Given name(s):	Deyarne
Surname:	Plowman
Address:	c/o- NPWS GISDivision, HC Po Box 1967
City:	Hurstville NSW
State:	New South Wales
Postcode:	2220
Phone:	(02) 9585 6688
Email:	
Occupation:	
Notes:	



- Click anywhere outside of the pop-up to close it.
- To choose your details, click on the [Select](#) link button.

The **Search for observer** pop-up closes and your selected contact details are displayed in the **Supplied by** field.

c. Scientific licence number

If the dataset (or part thereof) is being supplied pursuant to a Scientific Licence, the licence number(s) should be recorded here.

- Enter the licence number(s) in the **Scientific licence number** field (this is a free text field, allowing up to 50 characters). Multiple licence numbers can be separated by a space, comma or semi-colon.

Note that Scientific Licensing use the data from this field when renewing licenses to ensure data has been entering before issuing a new licence.

d. Import type

At the **Import type**, note the default selection is for **Standard Import sighting**.


Leave this as is for all non-survey data. Note that if you wish to upload systematic survey data (either fauna or flora) you will need to upload this via the modified excel file, tailored specifically to survey data (available from WDU). Refer to the Fauna survey module manual for details.

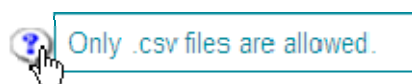
e. File

Finally, to select your file for upload, look at the **File upload** box.

File upload

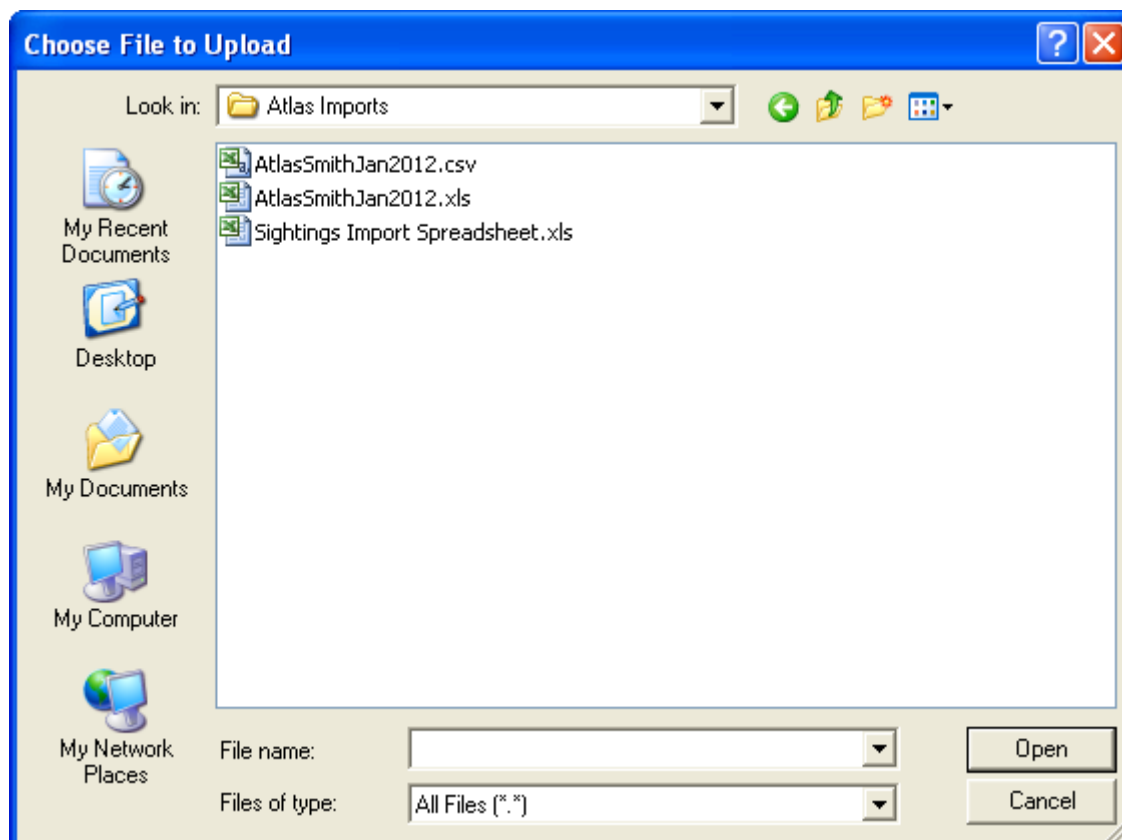
File
Browse...

- Note the help  button.
- If you click on the button, a pop-up reminds you that only **.csv** files can be uploaded.

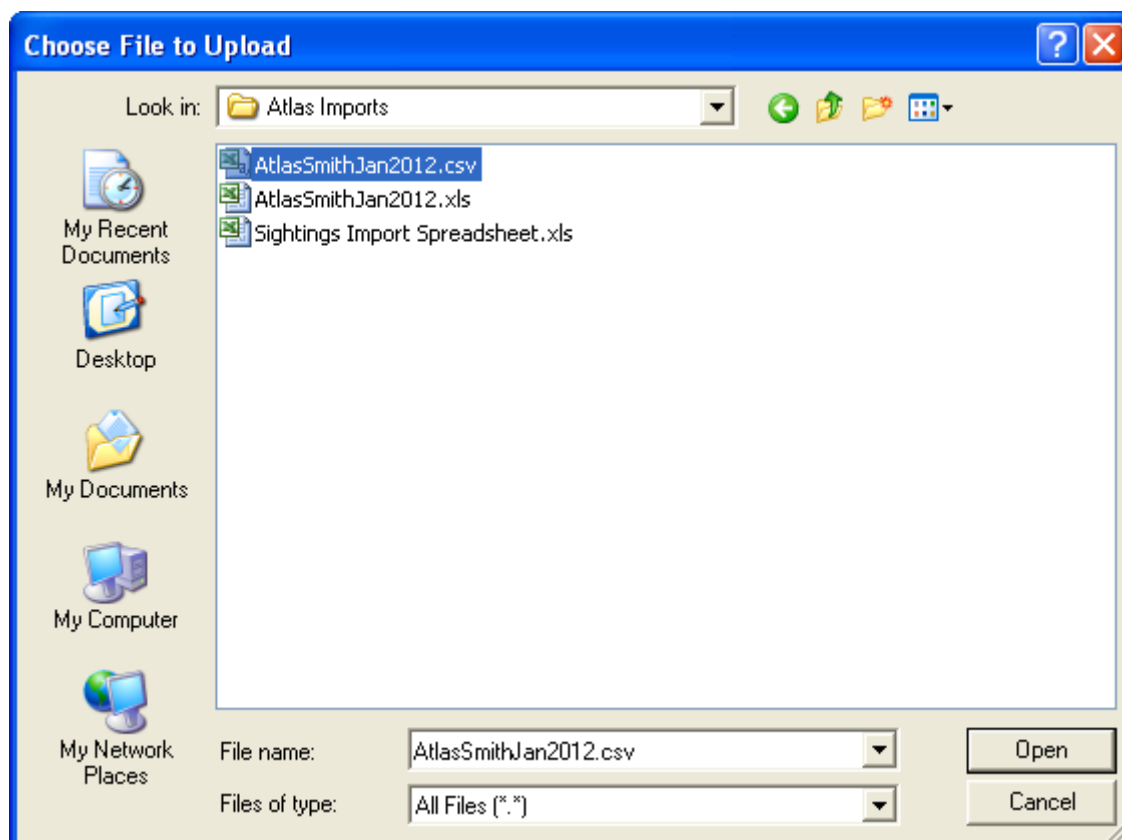


- Click on the [Browse...](#) button.

A **Choose file to upload** pop-up displays.



Use the **Look in** field to navigate to the file, held on your local or hard drive.



NB: Unfortunately you *cannot* use the **Files of type** menu to filter on only .csv files.

- Once your file has been selected, click on the  button.

The file pathway and filename will be listed in the **File** field and the field will automatically highlight green.

File upload


File

Browse...

Submit

Alternatively you can type the file name and pathway directly into the **File** field.

You may have noted that once the cell highlights green, the **Submit** button activates.

- Click on the  button.

A **Data processing** pop-up displays.

A screenshot of a web browser window. The browser's address bar shows a URL starting with 'http://'. The page has a teal header bar with a 'Close' button in the top right corner. Below the header, the text 'Data processing' is displayed in a teal font. A horizontal dotted line separates this title from the main content area. In the main content area, the text 'Please wait while the system is processing the request...' is displayed in a black font.

While processing, your dataset is undergoing preliminary validations which include checking that mandatory fields are filled in and values are entered in the correct format.

Once the database has validated the fields contained in your file, a **Sighting submission** pop-up will display with details of your submission.

You will need to review both the **Status** and **Log** values to determine how next to proceed.

Generally you will receive one of two Status values;

- a. Invalid, or**
b. Submitted

Following is a summary of what these different **Status** types mean;

- a. Invalid**

If the Status type displays as **Invalid**, this indicates that your file contains erroneous or missing data.

Sighting submission

Status

Invalid

Log

11:57:54 AM: Submission started.
 11:57:54 AM: Spreadsheet uploaded successfully.
 11:57:54 AM: Row 4 type is invalid. Type must be either FA or FL.
 11:57:54 AM: Row 4 first date is invalid. First date must be a value between 01/01/1770 and today. First date must be earlier than last date.
 11:57:54 AM: Row 4 last date is invalid. Last date must be a value between 01/01/1770 and today. Last date must be later than first date.
 11:57:54 AM: Row 4 count is invalid. Count must be an integer, > 0.
 11:57:54 AM: Row 4 datum is invalid.
 11:57:54 AM: Row 4 gps is invalid.
 11:57:54 AM: Row 4 zone is invalid. Zone must be an integer.
 11:57:54 AM: Row 4 coordinate is invalid.
 11:57:54 AM: Row 4 accuracy is invalid. Accuracy must be a number between 1 and 100,000, up to 4 decimal places.
 11:57:54 AM: Row 4 location description is invalid. Location description cannot be null and refers to the place name.
 11:57:54 AM: Row 4 geology code is invalid.

Save log

The **Log** will identify which Row's contain fields that require review and edits, with a brief description of what edits are required, as shown in the example above. Note that the Row number here refers to the row number in your excel file.

Note that only the first 100 errors will display in the log, if there are more than 100 error messages, or you wish to review your messages at a later date, you will need to save the log to view details.

- Click on the **Save log** button

You will need to fix these errors in the **Excel** file. Editing the excel file ensures that the formulae and reference worksheet validates any new values added.

- Make any edits to the Excel file.
- Resave the file as a **.csv** file
- In Atlas, re-submit the **.csv** file for upload.

Repeat this process as necessary until the **Status** returns as **Submitted**.

b. Submitted

If the Status type displays as **Submitted**, this means that your submission has passed **almost all** validations.

Sighting submission

Status

Submitted

Were all locations valid?

View locations Yes No

Log

1:36:14 PM: Submission started.
 1:36:14 PM: Spreadsheet uploaded successfully.
 1:36:14 PM: Spreadsheet is valid.
 1:36:14 PM: Creation of sighting staging records started.
 1:36:15 PM: 68 sighting staging record(s) created.
 1:36:15 PM: 1 sighting staging observer record(s) created.
 1:36:15 PM: Sighting staging and related records saved.
 1:36:15 PM: Submission finished successfully.

Save log

Note that the **Sighting Submission** pop up will include the following box;

Were all locations valid?

View locations Yes No

The final step of the submission is to confirm that all of the locations within the file are valid (i.e. the location description field and coordinates match up).

You have two options;

- i. **Check the locations via a map generated in Atlas, to confirm they are all valid, or**
- ii. **Confirm that you have *already* checked the locations and they are all correct.**

Following is a summary of each of these options;

- i. **Check the locations via a map generated in Atlas.**

If you have not already checked the location descriptions against the coordinates for all records (via your own GIS software, or other means) in your file, you can do this via the online Atlas website.

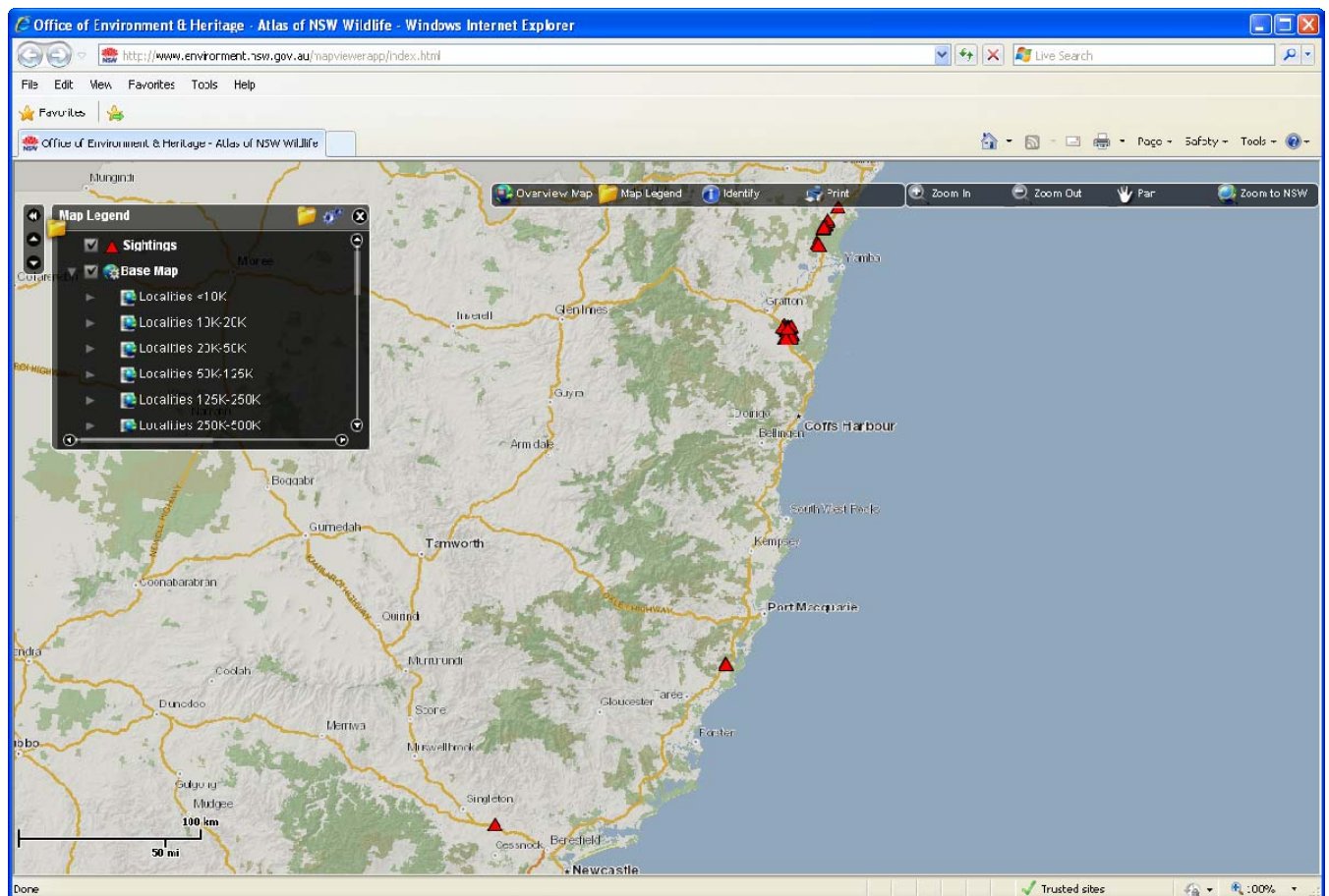
- Click the **View locations** button.

Note that a warning message appears advising you to wait while the map may take some time to display.

Were all locations valid?


View locations Yes No Please wait while the system is processing the request...

- A new window will open, with a map zoomed to your locations.

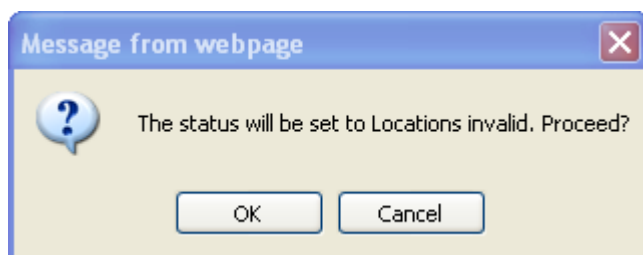


For details on how to interact with this map and review details for individual records, please refer to [Section 6.2.3](#).

When you have finished checking the records, close the map window.

If any locations require correction, you will need to click the  button in the **Sighting submission** pop-up.

The following pop-up will appear;



- Click on the  button.

As a result the **Status** will automatically change to **Locations invalid**.

Sighting submission Close

Status

Locations invalid ▼

Log

1:36:14 PM: Submission started.
 1:36:14 PM: Spreadsheet uploaded successfully.
 1:36:14 PM: Spreadsheet is valid.
 1:36:14 PM: Creation of sighting staging records started.
 1:36:15 PM: 68 sighting staging record(s) created.
 1:36:15 PM: 1 sighting staging observer record(s) created.
 1:36:15 PM: Sighting staging and related records saved.
 1:36:15 PM: Submission finished successfully.

Save log

- You will need to make the necessary corrections to your Excel file, re-save as a .csv file, and submit the updated file via the **Submit Sightings** selection again.

When the file displays with the four highlighted areas, as follows, you are ready to continue to step ii.

Sighting submission Close

Status

Submitted ▼

Were all locations valid?

View locations Yes No

Log

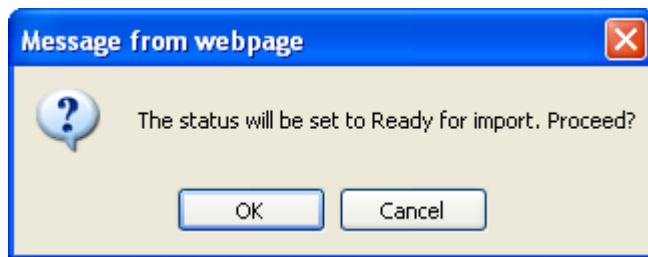
1:36:14 PM: Submission started.
 1:36:14 PM: Spreadsheet uploaded successfully.
 1:36:14 PM: Spreadsheet is valid.
 1:36:14 PM: Creation of sighting staging records started.
 1:36:15 PM: 68 sighting staging record(s) created.
 1:36:15 PM: 1 sighting staging observer record(s) created.
 1:36:15 PM: Sighting staging and related records saved.
 1:36:15 PM: Submission finished successfully.

Save log

ii. Confirm that the locations are all valid

- Click the Yes button.

The following pop-up will display;



- Click on the  button.

The pop-up closes, the location validation box disappears and the Status will be set to **Ready for import**.

Your file has now been successfully submitted and is awaiting review and import by WDU staff.

- Close the **Sighting submission** pop-up.

You do not need to do anything further.

Note: any files where the Status is listed as **Invalid**, will be ignored by WDU.

5.6.4 Troubleshooting

Note that you may receive a Status of **Invalid**, without any fields specified in the **Log** (as shown in the following example)

Close

Sighting submission

Status

Invalid

Log

2:29:48 PM: Submission started.
2:29:48 PM: Spreadsheet uploaded successfully.
2:29:48 PM: Row 5 is invalid.
2:29:48 PM: Spreadsheet is invalid.
2:29:48 PM: Submission aborted.

Save log

This may occur because you have inadvertently entered a rogue value (such as a space or letter) into another row.

If it is not immediately clear from looking at your .xls or .csv file as to what may be causing the problem, please contact [WDU](#) for advice.

5.6.5 How are records finally imported into Atlas?

Once you have received a **Status** of **Ready for Import** in the Sighting Submission pop-up, the file is stored in a staging area of the database, awaiting import. The records in the staging area have not yet been assigned sighting keys and will not appear in any searches you undertake.

The Wildlife Data Unit (WDU) are the only OEH staff that can finish the import process to incorporate the records into the Atlas. Note that only those submissions flagged as **Ready for Import** will be reviewed and imported by the WDU. All other submissions that have returned as **Invalid** will be ignored.

The WDU routinely reviews and processes any files which are flagged 'Ready for Import'.

For the file to be imported, this still involves further validation; i.e. random audits of locations, assigning observer details, and species details (where necessary) and review of potential duplicates, at which point WDU staff may contact you if further clarifications are required.

The WDU will work through imports by date of submission. If there is an urgency to have your file imported, please just let the WDU staff know, otherwise it will be imported in due time.

6. Search

6.1 Background information to be read prior to searching

Because of the range of external clients requiring access to Atlas data and the many issues in supplying this data, it is critical that staff are aware of OEH's licensing of Atlas data.

6.1.1 Clients of Atlas data

In addition to OEH staff, Atlas data is routinely used by a variety of people external to OEH. These include:

- **environmental consultants** undertaking development applications and reports.
- other **Commonwealth and state government departments** for conservation planning and land management
- **catchment management authorities**
- **local government agencies** for environmental assessments
- **non-government organisations** managing private reserves or providing advice on local projects
- **academics and researchers** working in particular areas or species
- **students** working on school or university projects
- **land holders** undertaking land clearing applications, and
- **private individuals** who may wish to know about species on and around their property.

6.1.2 Why is data provided under a licence agreement to external clients?

Data is provided under licence to protect the locations of species, particularly those that are sensitive, and to ensure that the appropriate data is accessed.

An Atlas licence for clients external to OEH;

- licences the user for use of the Atlas system and the data they retrieve from it
- enables multiple users within the one organisation to obtain access to the Atlas under a single licence, and
- defines the restrictions around mapping of records. This enables mapping of non-sensitive species at any scale. Should the user wish to produce a map which does include sensitive species, they can either;
 - refine the scale to 1:250,000 or coarser, or
 - produce a map from the Atlas, via public user access, at any scale, where locations of;
 - [Category 2 sensitive species](#) are denatured to 0.1° (approximately ten kilometres accuracy), and
 - [Category 3 sensitive species](#) and denatured by 0.01° (approximately one kilometre accuracy) for Category 3, by default.

The full conditions under which you can access and use data from the Atlas of NSW Wildlife database, are available via the Atlas Data Licence.

In addition, data being provided under licence from the WDU ensures:

- the licensee is NOT provided with any data which is supplied to OEH for internal OEH use only
- the licensee is NOT provided with Observer name(s)
- as licences are only approved once a reasonable request has been provided, the WDU can vet any inappropriate requests for data, and

- Sensitive species are denatured.

It is critically important that all licensing and supply of Atlas and supporting VIS flora survey data, is handled by the WDU only.

Anyone external to OEH, wishing to obtain Atlas records should be directed to:

- the **Atlas website as a public user** to access the publicly available data, or
- the **Data Exchange Officer, WDU** to obtain a licence for more comprehensive data access.

NB: As the data licence applies to anyone external to OEH or working on a project unrelated to their work at OEH, OEH staff undertaking studies or working in another job, must contact WDU to arrange a licence for access to the data.

6.1.3 Sensitive species data policy

The coordinates for all species sightings are given to licensed clients at 'as-held' accuracy (that is, with the coordinates provided at the same level of accuracy as they are supplied to WDU for inclusion in Atlas), except for a sub-set of species, known as 'Sensitive Species'. Licensed clients receive coordinates for Category 2 Sensitive species rounded to the nearest 0.01° accuracy (approximately one kilometre), to protect the precise locations of these species.

Sensitive species are those deemed by OEH's Biodiversity Conservation Managers as being particularly vulnerable to threats such as collection and disturbance e.g. all threatened orchids are listed as sensitive due to their attractiveness to collectors. The policy (which has been in effect since 2004) and listing of species classed as sensitive, can be viewed at;

www.environment.nsw.gov.au/policiesandguidelines/SensitiveSpeciesPolicy.htm.

6.1.4 Disclaimer / Reference for Atlas data

Disclaimer

When including species lists or maps generated from the Atlas, in reports, please ensure that the standard disclaimers that are provided with the lists/maps are included.

Maps/reports made from the Data and that will be available to third parties must acknowledge the source and the date the Data was obtained, as follows;

"NSW Office of Environment and Heritage's Atlas of NSW Wildlife, which holds data from a number of custodians. Data obtained dd/mm/yyyy".

Reference

The Atlas of NSW Wildlife should be cited or referenced in any bibliography as follows;

"NSW Office of Environment and Heritage (<insert year>) Atlas of NSW Wildlife database. Data accessed <insert dd/mm/yyyy>."

6.1.5 Making data available to OEH contractors

If OEH has a written contract with someone outside of the department to do work for us, the contractor would be regarded as a staff member for the duration of the project. As such they can be provided with all Atlas data, including the restricted licensed datasets (for OEH use only), providing;

- any Atlas data accessed by the contractor is used only for the specified project
- upon completion of the project all copies of the data held by the contractor must be deleted
- the contractor must safeguard the data from unauthorised access while the data is in their possession, and

- the contractor must not provide the Data, in part or in whole, to any third party.

These issues of Confidentiality and Intellectual Property rights are covered in the standard OEH contracts. These are addressed in section 16 and 17 of the Quotation for Low Risk Professional Services up to \$30000, and in sections D and E of the Professional Services Contract.

There is an additional issue of ensuring any Atlas data is used in line with the Sensitive Species Data Policy, which is NOT covered under either of the standard contracts. To ensure that the contractor is aware of this Policy, it is advised that the following information be provided to the contractor:

“Please be advised that the Department has a Sensitive Species Data Policy designed to protect locations of Sensitive Species”.

www.environment.nsw.gov.au/policiesandguidelines/SensitiveSpeciesPolicy.htm.

The OEH officer employing them is responsible for supplying the data to the contractor, however if in need of assistance, please contact [WDU](#) for advice.

6.1.6 Requirements for OEH staff obtaining data for project use

If, for example, you are working on a project for a particular area of the state, for which you notice there is another dataset which is not already part of the Atlas but which would be useful to your project (e.g. some bird data from a Birding club or plant records from a local herbarium), please contact WDU to discuss before you rush out and acquire/purchase the data.

It is in OEH's best interest if you are able to acquire the data for incorporation into the Atlas, so that it may be used by all staff. Obtaining part (or all) of a dataset and not feeding this into the Atlas, can result in wasted OEH resources, particularly if other staff obtain the same dataset in future.

- If a cost is involved, it might be relatively cost effective for OEH to obtain the entire dataset.
- Obtaining entire datasets at a time, rather than by fragments, can make periodic updates more efficient.
- While WDU do not have funding for data acquisition, we can certainly look into various options, such as a bilateral data exchange.
- WDU can provide advice/information on fields needed to ensure the data can be added to the Atlas.
- WDU can negotiate licence agreements and any licences can be filed in the WDU filing system to ensure ease of reference.

6.1.7 Current restrictions and policy guidelines

Restrictions on use of records in Atlas that have been provided from the Department of Sustainability and Environment, VIC (DSE)

- DSE stipulate that OEH are required to obtain prior written permission from the Royal Botanic Gardens Board if their flora distribution records are to be used for any research purposes.
- Maps available to third parties must be at such a scale that the geographic records supplied under this agreement cannot be determined (not finer than 1:250,000 without the express written permission of the Licensor).


6.2 Start searching

6.2.1 Select search criteria


- Click on the **Search** menu.



A new window containing the **Atlas search** page returns.



Environment
& Heritage


the website for the Atlas of NSW Wildlife

HOMEATLAS SEARCHVIS FLORA SURVEY

You are here: [Home](#) > Atlas search

Atlas search

This atlas contains recorded sightings of plants, mammals, birds, reptiles, amphibians, some fish, and some (mainly endangered) invertebrates. Use the search form below to find recorded sightings and maps of plants or animals in a particular area. Find out [more](#).

1. Which species or group?

☒ All entities☐ Animals☐ Plants☐ Fungi☐ Communities☐ Threats☐ Endangered populations☐ Search for a species or group of species (e.g. birds)

2. Legal status?

☒ All records☐ Select records that fall under one or more categories

3. What area?

☒ Entire area☐ Select a geographic area☐ Define my own area (Remember that you must select an area at least 10km x 10km. If you select a smaller area, the search area will be automatically extended to approximately 10km x 10km.)

4. Period of records?

☒ All records☐ Select records for a specific time period

5. Status?

☒ Valid records only☐ Valid records (excl. vagrants and populations that are no longer extant)☐ Quarantine records only☐ All records (incl. quarantine, suspect and rejected records)


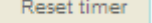
6. Accuracy?

☒ All records☐ Records with Accuracy 100m or better☐ Records with Accuracy 1000m or better


DISCLAIMER
☐ By submitting a search you accept that data in the Atlas come from a number of different sources and are only indicative; the data cannot be considered a comprehensive inventory and may contain errors and omissions.


Submit search

Tip

The Reset time box   which displays on the Atlas login page continues to count down after the new Search window opens. This means that if you intend to use the Search page for more than 1 hour, your Atlas session could time out while you are in the middle of a search. To avoid this happening, click on the reset timer button before the clock expires.

The Search page is displayed as a single page with radio-buttons and drop-down lists to select your search criteria. Before beginning a search, please refer to [Section 4.3](#) to review helpful advice and warnings.

There are six steps at which you can input criteria to refine your search. Note that each step has an information button  which is located to the left of each step number.

- Left mouse click once on the  button, to display a text box underneath the heading with more information about this field. As an example, the info box for the first step is displayed below.



1. Which species or group?

Species

Choose one of the following options:

- All entities
- Animals
- Plants
- Fungi
- Communities
- Threats
- Endangered populations
- Search for a species or group of species (e.g. birds). Type in all or part of a Species (scientific or common name), Genus, Family, Order or Class and click on the Go button. The resulting dropdown list will contain all values that contain your search word. For example, if you were to search on the word 'bat', the result list would include not only bat species such as the Common Bentwing-bat, but also the Family Hydrobatidae, the Genus Acrobates, the Grey Grasswren, Amytornis barbatus and the Antipodean Albatross. Choose the correct option you wish to search on from the dropdown list.

☒ All entities ☐ Animals ☐ Plants ☐ Fungi ☐ Communities ☐ Threats ☐ Endangered populations ☐ Search for a species or group of species (e.g. birds)

Enter values into each of the six steps, as follows:

1. Which species or group?



1. Which species or group?

☒ All entities ☐ Animals ☐ Plants ☐ Fungi ☐ Communities ☐ Threats ☐ Endangered populations ☐ Search for a species or group of species (e.g. birds)

Choose one of the following eight options:

- All entities**
- Animals**
- Plants**
- Fungi**
- Communities** (threatened Ecological Communities, as listed under the TSC Act)
- Threats** (Key Threatening Processes, as listed under the TSC Act)
- Endangered Populations** (as listed under the TSC Act), or
- Search for a species or group of species (e.g. birds).**

If selecting a specific species or group:


- Click on the last option '**Search for a species or group of species (e.g. birds)**' to display a search box:

Search for term

Enter at least 3 letters and click Go

Go

Term selected:

- Type in all (or part) of a **Species** (scientific or common name), **Genus**, **Family**, **Order** or **Class**.
- Click on the  **Go** button.

A **Species** pop-up appears listing all values that *contain* your search word. For example, if you were to search on the word '**bat**', the result list would include not only bat species such as the Common Bentwing-**bat**, but also the Family Hydro**bat**idae, the Genus **Acrobates**, the Grey Grasswren, *Amytornis bar**bat**us* and the Antipodean **Albatross**.

Close

 **Species**

Select one from the list below

[Acacia dealbata](#) Species ; Silver Wattle

[Acacia dealbata subsp. dealbata](#) Subspecies ; Silver Wattle

[Acacia dealbata subsp. subalpina](#) Subspecies ; Silver Wattle

[Acacia nanodealbata*](#) Species ; Silver Dwarf Wattle

[Acrobates](#) Genus

[Acrobates pygmaeus](#) Species ; Feathertail Glider

[Acrobatidae](#) Family ; Gliders

[Albatross Mallee](#) Common Name ; Eucalyptus langleyi

[Albatrosses](#) Common Name ; Diomedidae


[Albatrosses, Petrels and Shearwaters](#) Common Name ; Procellariiformes

[Amytornis barbatu](#)s Synonym ; Grey Grasswren

- Use the scroll-bar to scroll through the list and select the appropriate species.

On selecting the species, the **Species** pop-up will automatically close and the selected species will display next to the '**Term selected:**' text.

2. Legal Status?

 **2. Legal status?**

☒ All records

☐ Select records that fall under one or more categories

Choose one of the following two options:

- All records, or
- Select records that fall under one or more categories
 - Clicking on the option **Select records that fall under one or more categories** displays a search box with the following options:

2. Legal status?

☐ All records ☒ Select records that fall under one or more categories

Species categories

☐ Threatened in NSW ☐ Threatened Nationally ☐ Protected in NSW ☐ CAMBA ☐ JAMBA ☐ ROKAMBA ☐ Exotic ☐ Native

- **Threatened in NSW** refers to species listed on the *Threatened Species Conservation Act 1995*.
 - **Threatened Nationally** refers to species listed on the *Environment Protection and Biodiversity Conservation Act 1999*.
 - **Protected in NSW** refers to species listed on the *National Parks and Wildlife Act 1974*.
 - **CAMBA** refers to species listed on the China-Australia Migratory Bird Agreement.
 - **JAMBA** refers to species listed on the Japan-Australia Migratory Bird Agreement.
 - **ROKAMBA** refers to species listed on the Republic of Korea-Australia Migratory Bird Agreement.
 - **Exotic** refers to introduced species.
 - **Native** refers to all non-exotic species.
- Select one or more **Species categories** by clicking in the check-box(es).

Note that selecting more than one category will return species records that occur in either one of those categories. For example, selecting both **Threatened in NSW** and **Threatened Nationally** will return all records that are listed on *either* the *Threatened Species Conservation Act 1995* *or* the *Environment Protection and Biodiversity Conservation Act 1999* (rather than only those species listed on *both* Acts).

- To deselect, click the check box a second time.

3. What area?

3. What area?

☒ Entire area ☐ Select a geographic area ☐ Define my own area (Remember that you must select an area at least 10km x 10km. If you select a smaller area, the search area will be automatically extended to approximately 10km x 10km.)

Choose one of the following three options:

- Entire area** to search on all of NSW, together with any available records from neighbouring states
- Select a geographic area** to choose a layer type (e.g. LGA) to select a specific geographic area (e.g. Ashfield LGA)
 - If selecting the **Select a geographic area** radio button, a **geographic area** drop-down list will display.

☐ All areas ☒ Select a geographic area ☐ Define my own area (Remember that you must select an area at least 10km x 10km. If you select a smaller area, the search area will be automatically extended to approximately 10km x 10km.)

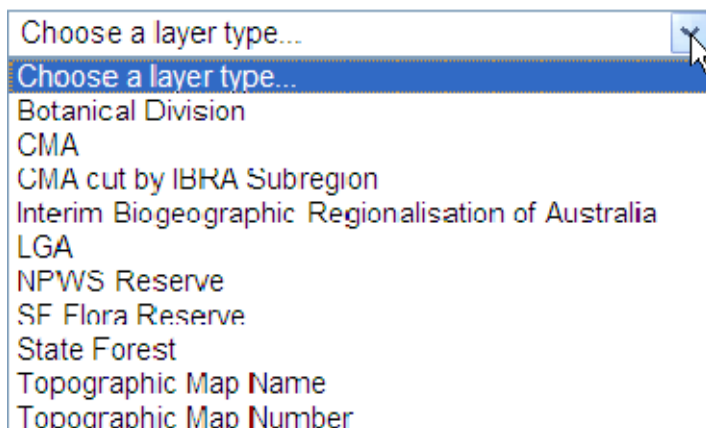
Geographic area

Choose a layer type...

Area selected: _____

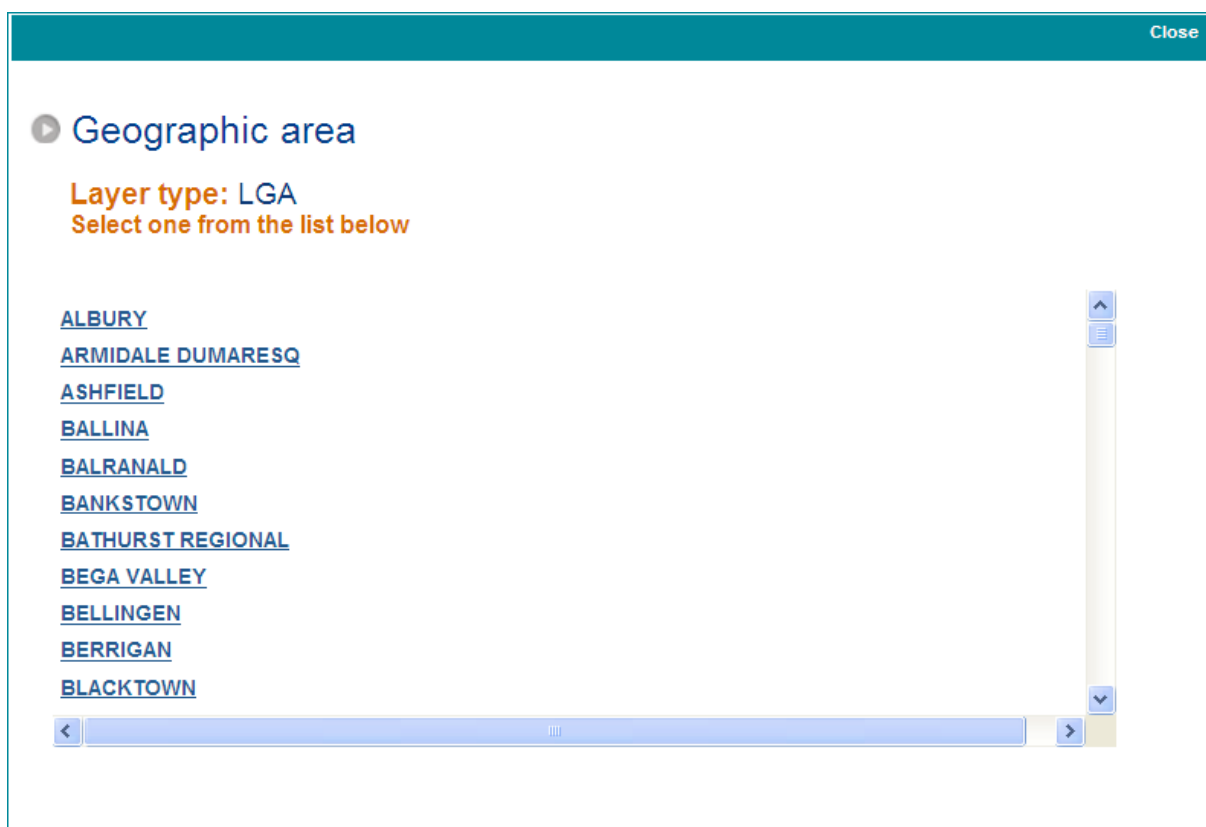
- Click on the drop-down box to scroll through the list of available layers to search on.

Geographic area



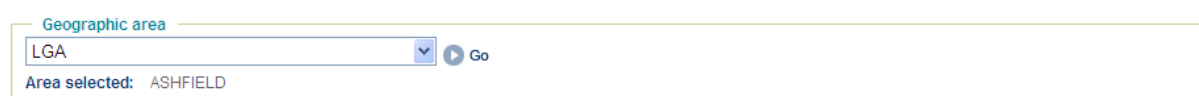
- On selecting a geographic area, a pop-up box with all available search areas will display.

For example, if **LGA** has been selected, the **Geographic area** box will display as follows;



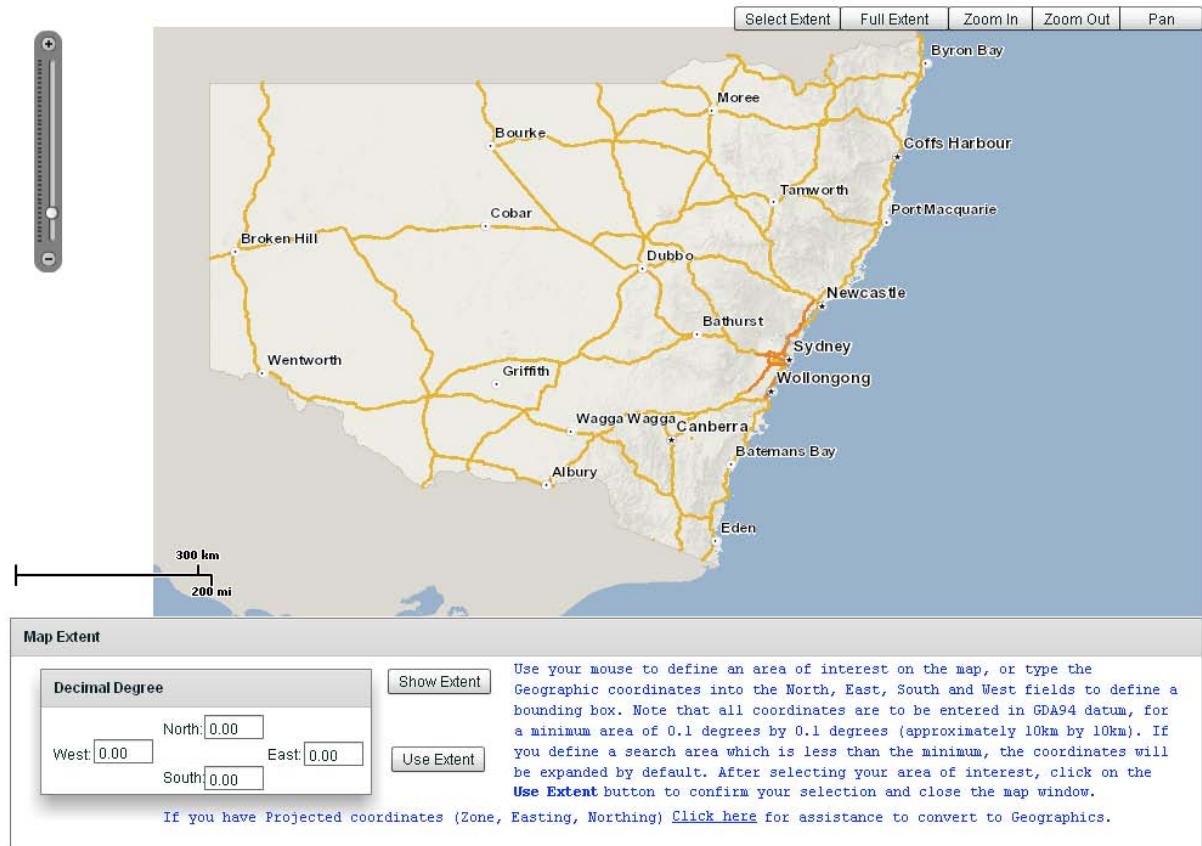
- Use the scroll bar to navigate through the list and **select** your geographic area of interest.

Selecting an area will cause the **Geographic area** pop-up box to automatically close, and the selected area to display next to the text '**Area selected:**'



c. Define my own area

- If you would prefer to input your own search boundary, clicking on this radio button will display a map of NSW in a new pop-up window.



The image shows a map of New South Wales (NSW) with various cities labeled, including Broken Hill, Bourke, Cobar, Dubbo, Moree, Tamworth, Coffs Harbour, Port Macquarie, Newcastle, Sydney, Wollongong, Bathurst, Griffith, Wagga Wagga, Canberra, Albury, Batemans Bay, Eden, and Byron Bay. A scale bar indicates 300 km and 200 mi. A vertical scale bar is on the left. The 'Map Extent' dialog box is open, showing a 'Decimal Degree' section with input fields for North, South, East, and West, all set to 0.00. There are 'Show Extent' and 'Use Extent' buttons. A text box explains how to use the mouse to define an area of interest or type in geographic coordinates. It notes that coordinates are in GDA94 datum and that a minimum area of 0.1 degrees by 0.1 degrees is required. A link is provided for converting projected coordinates to geographic coordinates.

Select Extent Full Extent Zoom In Zoom Out Pan

300 km
200 mi

Map Extent

Decimal Degree

North: 0.00
West: 0.00 East: 0.00
South: 0.00

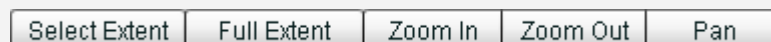
Show Extent Use Extent

Use your mouse to define an area of interest on the map, or type the Geographic coordinates into the North, East, South and West fields to define a bounding box. Note that all coordinates are to be entered in GDA94 datum, for a minimum area of 0.1 degrees by 0.1 degrees (approximately 10km by 10km). If you define a search area which is less than the minimum, the coordinates will be expanded by default. After selecting your area of interest, click on the **Use Extent** button to confirm your selection and close the map window.

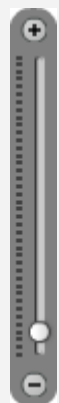
If you have Projected coordinates (Zone, Easting, Northing) [Click here](#) for assistance to convert to Geographics.

Map help

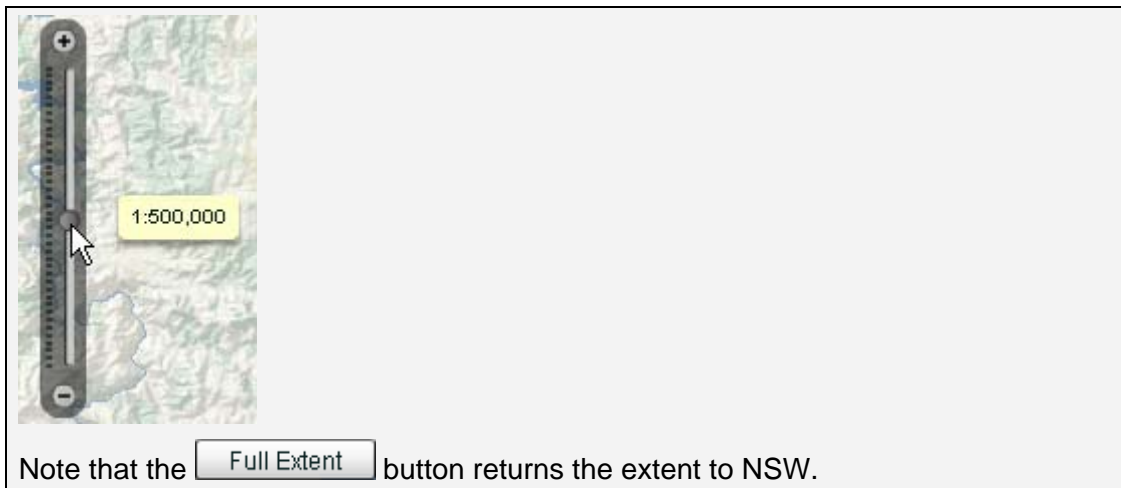
To allow for ease in selecting your search area, note the group of icons in the top right hand corner of the map:



and the bar on the top left hand side:



You can zoom in or out by either selecting the **Zoom In** or **Zoom Out** buttons and drawing a box, or using your mouse to click on the scale bar and dragging to the desired scale.



You can select a search area in one of two ways, either:

- i. Use your mouse to **draw a box around your area of interest**, or



- ii. Define your area of interest by **entering the bounding coordinates** in **geographics** (latitude and longitude) **Decimal degrees (GDA94)**.

To do this;

- Type your minimum coordinates into the South and West boxes, and type your maximum coordinates into the North and East boxes. Note (as shown in the below example), the North and South fields must be preceded by a negative sign (-), and are capped to 2 decimal places.

Decimal Degree			
	North:	<input type="text" value="-30.60"/>	
West:	<input type="text" value="150.65"/>	East:	<input type="text" value="151.25"/>
	South:	<input type="text" value="-31.55"/>	

- Click on the button to view the bounding box on your map (i.e. a red box will automatically draw that corresponds to the coordinates you have input).

NB: If you have projected coordinates (i.e. Zone, Easting, Northing) you wish to search on;

- Click on the [Click here](#) link (highlighted below).

Map Extent

Decimal Degree

West: 0.00 North: 0.00 East: 0.00 South: 0.00

Show Extent Use Extent

Use your mouse to define an area of interest on the map, or type the Geographic coordinates into the North, East, South and West fields to define a bounding box. Note that all coordinates are to be entered in GDA94 datum, for a minimum area of 0.1 degrees by 0.1 degrees (approximately 10km by 10km). If you define a search area which is less than the minimum, the coordinates will be expanded by default. After selecting your area of interest, click on the **Use Extent** button to confirm your selection and close the map window.

If you have Projected coordinates (Zone, Easting, Northing) [Click here](#) for assistance to convert to Geographics.

You will be re-directed to an excel conversion tool, **Convert.xls** (as shown below).

Convert.xls

	A	B	F	K	L	P	R	S	T	U	V	W
1												
2												
3												
4												
43												
51												
52												
53												
54												
55												
56												
57												
58												
59												
60												
61												
62												
63												
64												
65												
66												
67												
68												
69												
70												
71												
72												
73												
74												

GDA-MGA

Zone	56	
Easting	355254	
Northing	6544521	
Latitude	-31.22451°	
Longitude	151.48031°	

INSTRUCTIONS

(1) Enter the zone number in cell F3
 (2) Enter the easting in cell F4.
 (3) Enter the northing in cell P4.

Note

Records in the Atlas are referenced using the datum GDA94. If you have coordinates based on datum AGD66, the Land and Property Management Authority tool at <http://scims.lands.nsw.gov.au/transform.html> can be used to convert them to GDA94.

Constants & Parameters E,N Zne to Latitude & Longitude

In the file **Convert.xls**:

- Enter values for Zone, Easting and Northing to obtain the converted coordinates in decimal degrees.
- Then enter the converted coordinates into the Decimal degree box of the **Define my own area** window, before closing the convert.xls file.

Note that the minimum search area is 0.1 degrees by 0.1 degrees (approximately a ten kilometre by ten kilometre box). Attempting to enter or draw a smaller search area will return the following pop-up message:

Search area automatically expanded to the minimum area of 0.1 degrees by 0.1 degrees (approximately 10km by 10km)

OK

- To confirm your selection and close the map, click on the **Use Extent** button.

The map window will close and your selected coordinates will display on the search page.

4. Period of records

4. Period of records?

☒ All records

☐ Select records for a specific time period

Choose one of the following options:

- All records** (note that the database includes historical records), or
- Select records for a specific time period.**
 - If selecting **Select records for a specific time period**, a **Specific time period** box will display.


4. Period of records?

☒ All records

☐ Select records for a specific time period

Specific time period

Records since 

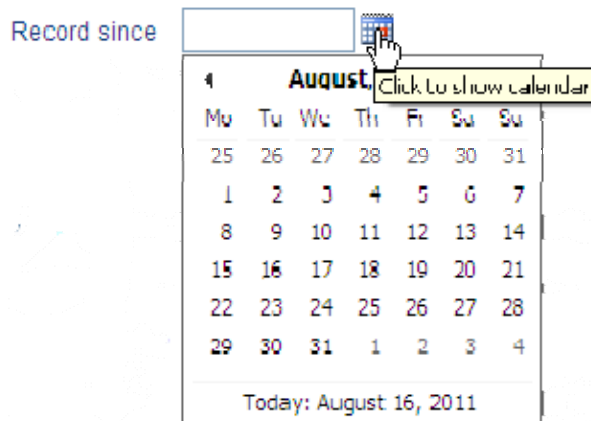
Records before 

i. To select records recorded **after** a particular date, either:

- click in the date cell to allow the cell format to display and enter the date in the format dd/mm/yyyy, or

Record since 

- click on the calendar icon to display a pop-up calendar allowing you to select the date.

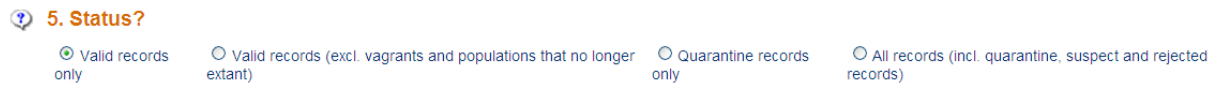


ii. To select record recorded **before** a particular date, click on the **Record before** field, and either choose the date from the pop-up calendar, or type the date in the format dd/mm/yyyy.

iii. To choose records recorded **within a specific time period**, enter details into **both** the **Record since** and **Record before** fields (where the date for the *Record since* field is \leq the date of the *Record before* field).

5. Status

Note – the Status filter is only available via OEH staff login



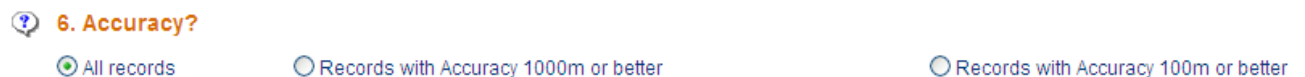
All records entered into the Atlas undergo a validation check to ensure they do not contain any obvious errors. Such validations include checking that the record occurs within the accepted range for the species and whether the record is a potential duplicate. See [Section 5.4](#) for more detail.

Choose one of the following options:

- a. **Valid records only** to search on only those records that have passed validation checks
- b. **Valid records (excl. vagrants and populations that are no longer extant)**
- c. **Quarantine records only** to search on only those records that have failed validation checks and are awaiting review by OEH staff, or
- d. **All records (including quarantine, suspect and rejected records)** to search on all records held in the database.

6. Accuracy

Note – the Accuracy filter is only available via OEH staff login



The coordinates for each record are assigned an accuracy to indicate how accurately the 'true' coordinates of the location of the sightings are known.

Choose one of the following options:

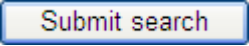
- a. **All records**
- b. **Records with Accuracy 100m or better**, or
- c. **Records with Accuracy 1000m or better**.

Note: There is a current bug relating to the accuracy filter when you map the records. For details please refer to Figure 5 – Troubleshooting for current bugs in the Atlas.

- Once all search criteria has been input, click on the **Disclaimer** checkbox to confirm you agree to the conditions.

DISCLAIMER

☒ By submitting a search you accept that data in the Atlas come from a number of different sources and are only indicative; the data cannot be considered a comprehensive inventory and may contain errors and omissions.

- To run the search, click on the  button.

After your search has run successfully, you have the option to;

- **View** the results (see [Section 6.2.2](#))
- **Map** the records (see [Section 6.2.3](#))
- **Save the species list** the records (see [Section 6.2.4](#)), and
- **Download records** (see [Section 6.2.5](#)).

6.2.2 Review results

The search results will return as a species list. Following is a sample results page for all Exotic species in Ballina LGA. (Note that depending on your screen resolution, you may only see the first species in your list, so you may need to use your scroll bar).

Search results

2

Which species or group?

☒ All entities ☐ Animals ☐ Plants ☐ Fungi ☐ Communities ☐ Threats ☐ Endangered populations ☐ Search for a species or group of species (e.g. birds)

1 ▶ Download records ▶ Save species list ▶ View map ?

Search criteria: Internal Report of all Valid Records of Exotic listed Entities in BALLINA LGA returned a total of 3,037 records of 246 species. Report generated on 30/10/2012 1:33 PM.

3 [Show all entities](#)

Displaying 1-100 of 246 species below

To map records for individual species, select up to 5 species then click "view map".
To map all records, click on "view map" (without selecting any species first).

3 1 2 3

	Common name	Scientific name	Map [Clear all]	4 NSW status	5 Comm status	6 No. of records
Animalia	Mosquito Fish	Gambusia holbrooki*	<input type="checkbox"/>			
Actinopterygii Poeciliidae	Cane Toad	Rhinella marina*	<input type="checkbox"/>			340
Amphibia Bufonidae	Red Junglefowl	Gallus gallus*	<input type="checkbox"/>			1
Aves Phasianidae	Mallard	Anas platyrhynchos*	<input type="checkbox"/>			3
Anatidae	Pacific Black Duck Mallard Hybrid	Anas superciliosa x platyrhynchos*	<input type="checkbox"/>			1
Columbidae	Rock Dove	Columba livia*	<input type="checkbox"/>			273
	Spotted Turtle-Dove	Streptopelia chinensis*	<input type="checkbox"/>			347
Pycnonotidae	Red-whiskered Bulbul	Pycnonotus jocosus*	<input type="checkbox"/>			2
Turdidae	Eurasian Blackbird	Turdus merula*	<input type="checkbox"/>			1
Sturnidae	Common Myna	Sturnus tristis*	<input type="checkbox"/>			1

Different aspects of this screen (highlighted and numbered) are explained in detail below.

1. Review Search criteria

Below the second dotted line on your search results page, your search criteria and results summary are listed.

Search criteria: Internal Report of all Valid Records of Exotic listed Entities in BALLINA LGA returned a total of 3,037 records of 246 species. Report generated on 30/10/2012 1:33 PM.

Please take the time to review this for each search to double check that you have entered the right criteria and the database is returning what you have specified. In particular, take a note of the first word 'Internal'. This indicates that the search was run when logged in as an OEH staff member (as opposed to 'Licensed' or 'Public' user, who can only obtain an external version of the data.)

2. Refine your search results by species or group

Note the first part of your search results includes radio buttons for species or groups.

Clicking on any of these radio buttons will re-run the search results against the new criteria. For example, if your initial search was for all Exotic species in Ballina LGA, you could click on the **Plants** radio button to refine the search results to Exotic plants in Ballina LGA.

Which species or group?

☐ All entities ☐ Animals ☒ Plants ☐ Fungi ☐ Communities ☐ Threats ☐ Endangered populations ☐ Search for a species or group of species (e.g. birds)

The search criteria and results list will adjust accordingly.

3. View the entire species list onscreen

Where more than 100 species are returned, a scroll bar will activate on the right hand side of the page allowing you to view the first (up to) 100 species. Where more than 100 species are returned, the results will be paginated (see numbers circled in the image below, on the left hand side) and a [Show all entities](#) link button displays on the right hand side.

Displaying 1-100 of 246 species below

To map records for individual species, select up to 5 species then click "view map".
To map all records, click on "view map" (without selecting any species first).

1 2 3

[Show all entities](#)

Either click on subsequent page numbers to view additional species, or click on the [Show all entities](#) link button, to display all results in a single page.

4. View legal status details

The legal status are displayed in two columns;

a. The column labelled **NSW status** refers to all species listed under NSW legislation;

- *National Parks and Wildlife Act 1974*
- *Threatened Species Conservation Act 1995*
- *Fisheries Management Act 1994*, and
- *Sensitive Species Data Policy* (OEH).

- Click on the [NSW status](#) link button to display a **NSW status** pop-up, listing the definition for each value in this field.

The screenshot shows a pop-up window titled "NSW status" with a "Close" button in the top right corner. The window contains a list of legal status categories, each with a number or code and a description. The list is scrollable, with a vertical scrollbar on the right side. The categories are:

- 1 Sensitivity Class 1 (Sensitive Species Data Policy)
- 2 Sensitivity Class 2 (Sensitive Species Data Policy)
- 3 Sensitivity Class 3 (Sensitive Species Data Policy)
- CH Critical Habitat (Threatened Species Conservation Act 1995)
- E1 Endangered (Threatened Species Conservation Act 1995)
- E2 Endangered Population (Threatened Species Conservation Act 1995)
- E3 Endangered Ecological Community (Threatened Species Conservation Act 1995)
- E4 Extinct (Threatened Species Conservation Act 1995)
- E4A Critically Endangered (Threatened Species Conservation Act 1995)
- E4B Critically Endangered Ecological Community (Threatened Species Conservation Act 1995)
- E4C Critically Endangered Fish (Fisheries Management Act 1994)

b. The column labelled **Comm. Status** refers to those species listed under Commonwealth legislation:

- *Environment Protection and Biodiversity Conservation Act 1999*, and
- Migratory Bird agreements (JAMBA, CAMBA and RoKAMBA).

- Click on the **Comm status** link button to display a **Commonwealth status** pop-up, listing the definition for each value in this field.

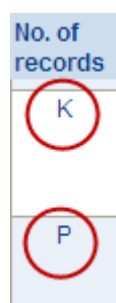


5. No. of records

The field labelled **No. of records** refers to the number of individual records. Please note that in some cases a single record may have noted multiple individuals, however this cumulative count has not been calculated (i.e. if a single record noted 5 individuals, this will only be recorded as 1).

Known v's predicted

In the No. of records field, in some cases, instead of a number, you may notice the letters 'K' or 'P'.



'K' (Known) and 'P' (Predicted) results are returned for threatened species or entities (endangered communities, key threatening processes) where there are no actual records in the Atlas database for your search area, but where the threatened species or entity is known or predicted to occur within any CMA sub-region that overlaps your search area.

'K' (**Known**) indicates a confirmed record within any CMA sub-region that overlaps your search area. This data is stored as a distribution layer in the TS Profiles Database.

If you click or hover over the value in the results list, the following info pop-up will display;

'K' (Known) where there are confirmed records, specimens or otherwise verified sightings in any CMA subregion overlapping the search area

'P' (**Predicted**) indicates that this threatened species or entity is likely to occur in a CMA sub-region overlapping your search area, based on a predicted distribution layer stored in the TS Profiles Database.

If you click or hover over the value in the results list, the following info pop-up will display;

'P' (Predicted) where there is high expectation by relevant experts that a species is likely to be present in any CMA subregion overlapping the search area, based on known presence of suitable habitat and distribution within adjoining subregions.

Note: Communities, Populations and Key threatening processes


As well as species, the results list will include any relevant records of Endangered Populations, threatened Ecological Communities and Key threatening processes.


Entities that are listed as a K or a P are included in the **Save species list** download, but NOT in the **Download records**.

Note that **Download records** only contains records of sightings that have been submitted to the Atlas, whereas the **Save species list** is a summary list which includes both Atlas sightings as well as known and predicted records.

Only species with a number in the 'No of records' field (indicating actual record(s) in Atlas) can be mapped.

6. Threatened Species profiles

Any species listed as threatened under the TSC Act, will have a threatened species profile, as indicated by the  button.

- To view the profile, click on the  button.

A new window will open with the profile for the species selected.

7. Exotic

Exotic / Introduced species are indicated by an asterisk (*) at the end of the scientific name (e.g. *Gambusia holbrooki**).

A note regarding Sensitive Species

Any species listed as Sensitive under OEH's [Sensitive Species Data Policy](#) will be identified in the NSW Status field in the data download (see [Section 6.2.5](#)). OEH staff have access to records of all sensitive species at as-held accuracy, however licensed users and public can only access denatured locations, as follows:

a. General public access to the Atlas

Category 2 Sensitive Species are denatured to 0.1° (approximately ten kilometre accuracy), and are indicated by a single caret (^).

Category 3 Sensitive Species are denatured to 0.01° (approximately one kilometre accuracy), and are indicated by a double caret (^ ^).

b. Licensed users

Category 2 Sensitive Species are denatured to 0.01° (approximately one kilometre accuracy), and are indicated by a single caret (^).


Refer to the [Sensitive Species Data Policy](#) for more information.

6.2.3 Map records

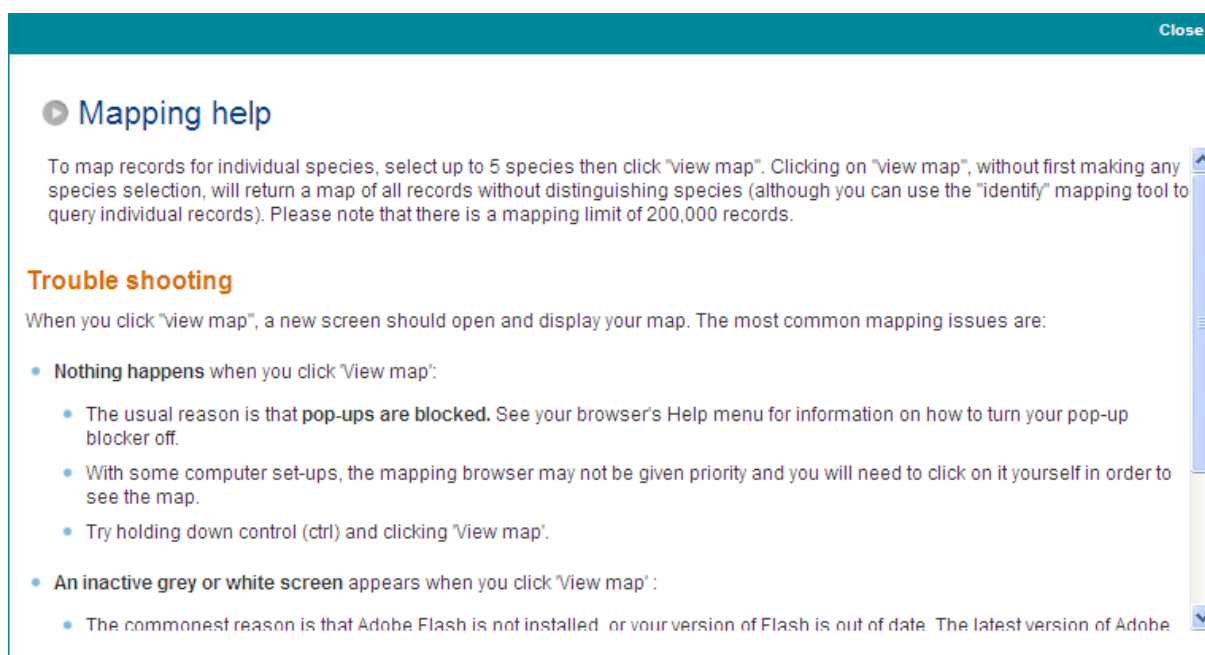
You can only map records for species with a number in the 'No of records' field. You cannot map species with a 'K' or 'P'.

To map records, you have the option of either selecting up to five species to map (which will display on the map as individual species), or alternatively view all the species (without making any selections) to produce a map that does not visually distinguish individual species.

If you wish to produce a map for publication which includes records of Category 2 or Category 3 sensitive species, you **must not** produce a map at a scale any finer than 1:250,000.

- For advice on mapping records, click on the  button next to the [View map](#) link button.

A **Mapping help** pop-up will appear.



Mapping help

To map records for individual species, select up to 5 species then click "view map". Clicking on "view map", without first making any species selection, will return a map of all records without distinguishing species (although you can use the "identify" mapping tool to query individual records). Please note that there is a mapping limit of 200,000 records.

Trouble shooting

When you click "view map", a new screen should open and display your map. The most common mapping issues are:

- **Nothing happens when you click "View map":**
 - The usual reason is that **pop-ups are blocked**. See your browser's Help menu for information on how to turn your pop-up blocker off.
 - With some computer set-ups, the mapping browser may not be given priority and you will need to click on it yourself in order to see the map.
 - Try holding down control (ctrl) and clicking "View map".
- **An inactive grey or white screen appears when you click "View map":**
 - The commonest reason is that Adobe Flash is not installed or your version of Flash is out of date. The latest version of Adobe

- Click on the [Close](#) link button to close the **Mapping help** pop-up.

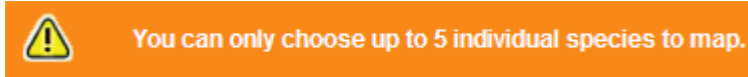
Mapping Option 1: Select up to five species to map.

- Select up to five species to map by clicking in the check-boxes of up to five species.

Map
[Clear all]



If you attempt to select more than 5 species, a warning message will appear;

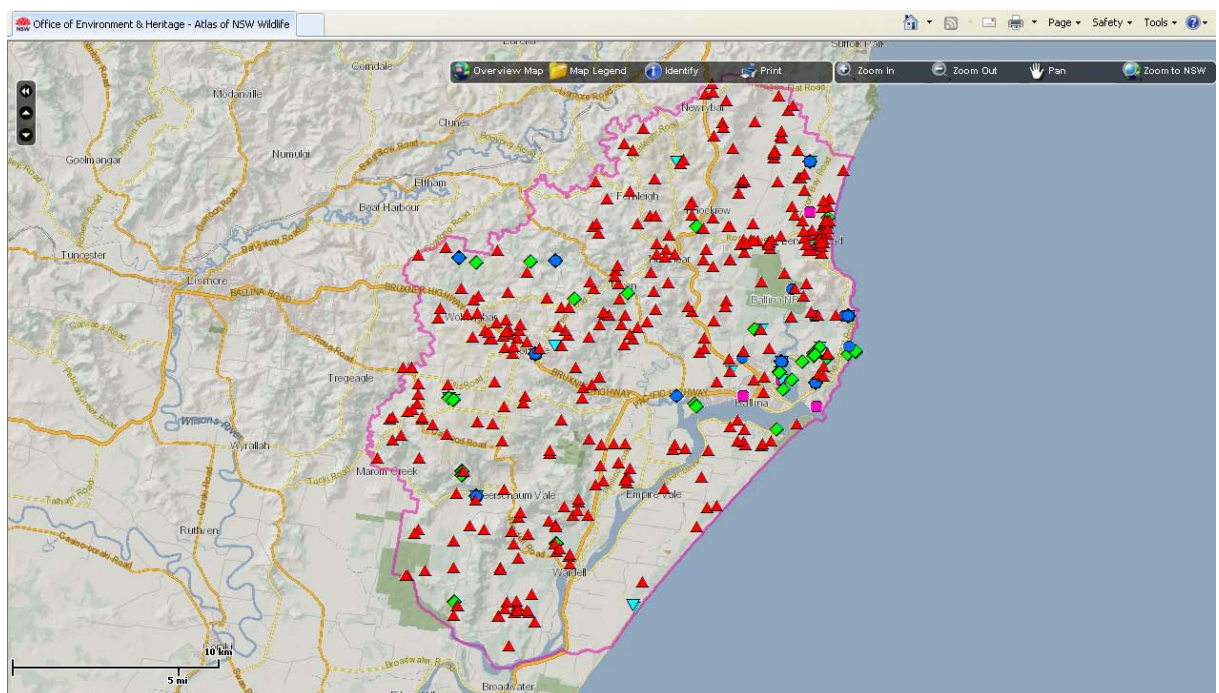


- If you wish to clear your current selections, click on the [Clear all](#) link button.

Note that if you have more than 100 species returned in your result set, you will not be able to select records from multiple pages (i.e. selecting species from the current page and then clicking on a subsequent page will clear the selections from the first page). You will be able to make selections from the entire list only after clicking on the [Show all entities](#) link button.

- Once you have selected up to five species to map, click on the [View map](#) link button.

A new window with a map will display, zoomed to your area of interest.



The map is interactive and allows you to zoom, pan, identify and print your map by accessing the tool menu.

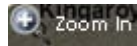


The four menus on the left hand side of the menu (**Overview Map**, **Map Legend**, **Identify** and **Print**) will display pop-up windows, allowing you to scrutinise various aspects of the map.

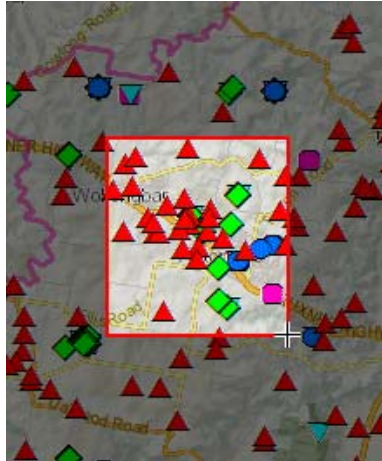
The four menus on the right hand side of the menu (**Zoom In**, **Zoom Out**, **Pan** and **Zoom to NSW**) allow you to interact with the map. Note however, that selecting the **Identify** menu, will de-activate these menu options, so ensure you close the **Identify** pop-up box first.

First look at the four buttons on the right hand side on the icon bar:

Zoom In



- To zoom in, click on the **Zoom In** menu option then draw a box on screen to select the extent you wish to zoom in to.



Alternatively you can use the scroll bar on your mouse to zoom in by scrolling upwards.

Zoom Out



- Click on the **Zoom out** menu option and draw a box on you map to zoom out. Note that drawing a large box will cause your map to zoom out by a smaller amount, while drawing a smaller box will cause your map to zoom out by a larger amount.

Alternatively you can use the scroll bay on your mouse to zoom in by scrolling downwards.

Pan



- Click on the **Pan** menu option to display your cursor as a hand icon.
- Then click and drag in the direction you wish to pan your map to.

Full Extent



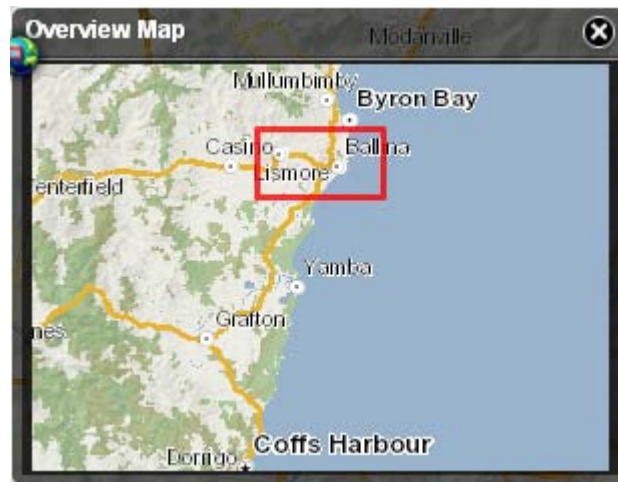
- Click on the **Full Extent** menu option to zoom to all of mainland NSW (regardless of what area you searched on). Note that if you have searched on records in Lord Howe Island, you will still only be taken to mainland NSW, so you will need to pan/zoom across to Lord Howe Island manually.

Now look at the four buttons on the left hand side of the icon bar:


Overview map



- Click on the **Overview map** menu option to display an inset map of the area in relation to it's location in NSW.



Hide or scroll through map pop-ups

The pop-ups can either be **closed**, by clicking on the  symbol in the top right hand corner, or **hidden** by clicking on the back arrow in the top left corner of the following menu option:



Note that as multiple pop-up boxes are selected from the left hand side of the icon bar (i.e. **Map legend**, **Overview**, **Identify** and **Print**), the up and down arrows allow you to scroll through the pop-ups.

Map Legend



The **Map Legend** identifies the selected species and any spatial layers that are on your map. Two scroll bars will display. One scroll bar allows you to navigate up and down through the list of spatial layers, while the other scroll bar allows you to navigate sideways enabling you to view the full species name.

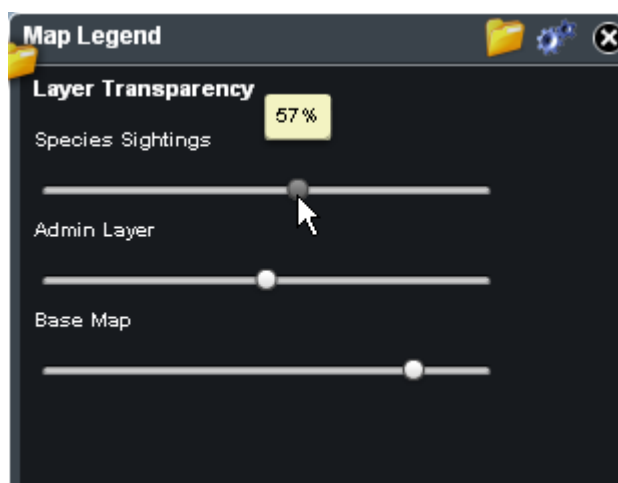
Note the icons in the top right hand corner of this pop-up;

Layer transparency




The transparency (i.e. brightness level) can be adjusted here.

- To alter the transparency of each layer, click on the ball and drag along the scroll bar to the desired transparency level.



Layer visibility

- To return to the map legend, click on the **Layer Visibility** icon .

Identify



- Click on the **Identify** menu option to display the identify tool.
- As no species are selected initially, the pop-up will display as shown:




Note that once the Identify menu is selected, the 4 options on the far right (**Zoom In**, **Zoom Out**, **Pan** and **Full Extent**) will de-activate. To be able to use these menus, you will need to close the **Identify** pop-up box.

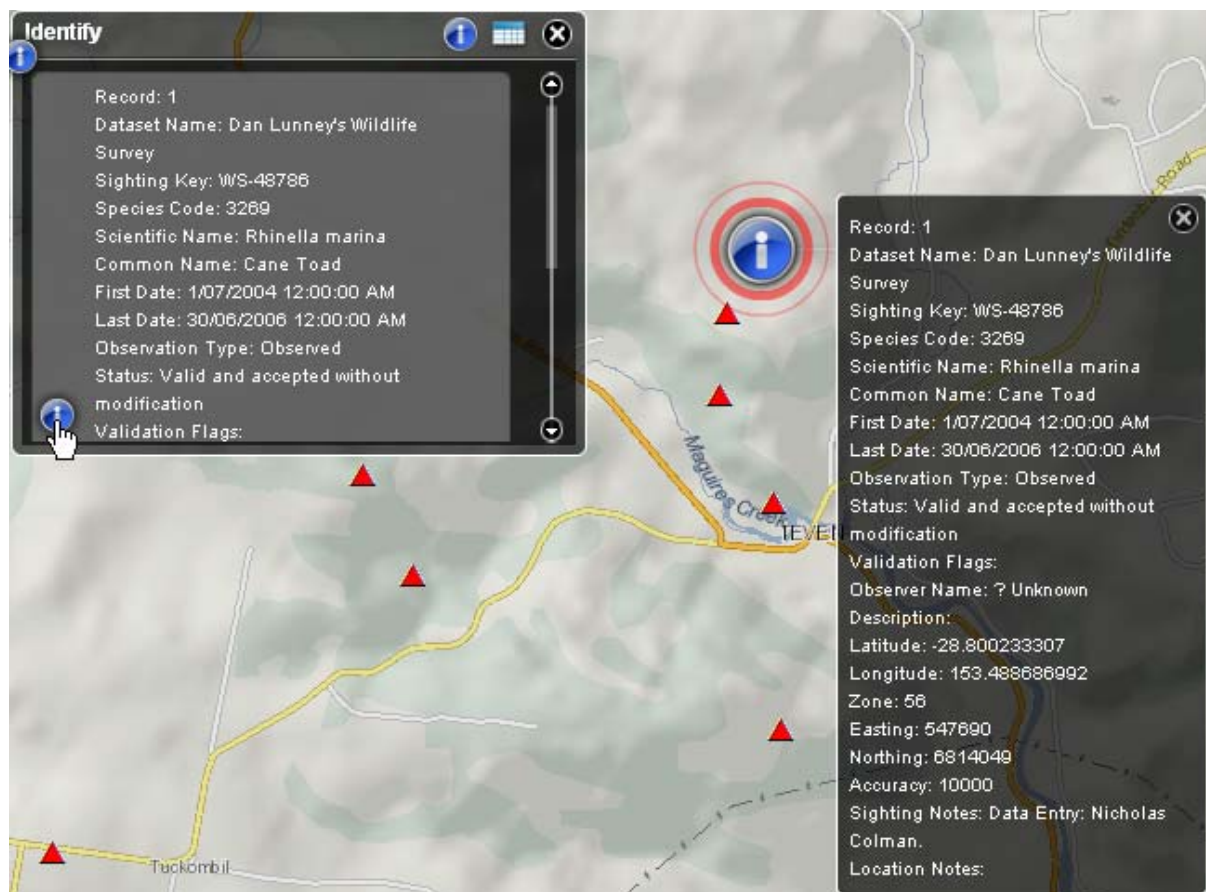
- Then use your cursor to click on any record on your map.




The details of your selected record will display in the Identify box.



Note that if multiple sightings occur at the one location, details of each record will display in the Identify box (multiple records of the same species will be numbered in the field **Record**).

- Use the scroll bar to navigate through the list.
- Continue to click on additional records as necessary to display details.
- To highlight a specific record and automatically zoom to it's location on the map, you can click on the  icon in the Map legend box (i.e. shown by the hand, to the left on the individual record).

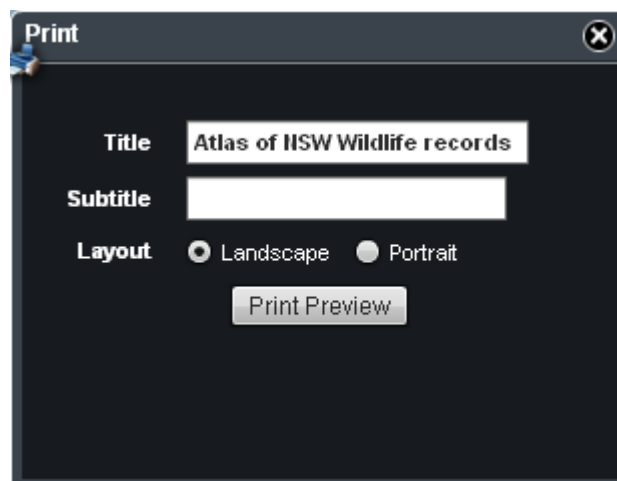


- Double clicking on the  button will zoom your map into the finest allowable scale, centred on that record.
- If you wish to clear the current list of sighting details, click on the  icon then click on the  icon.

Print



- To view your map in a printable format, click on the **Print** menu option.



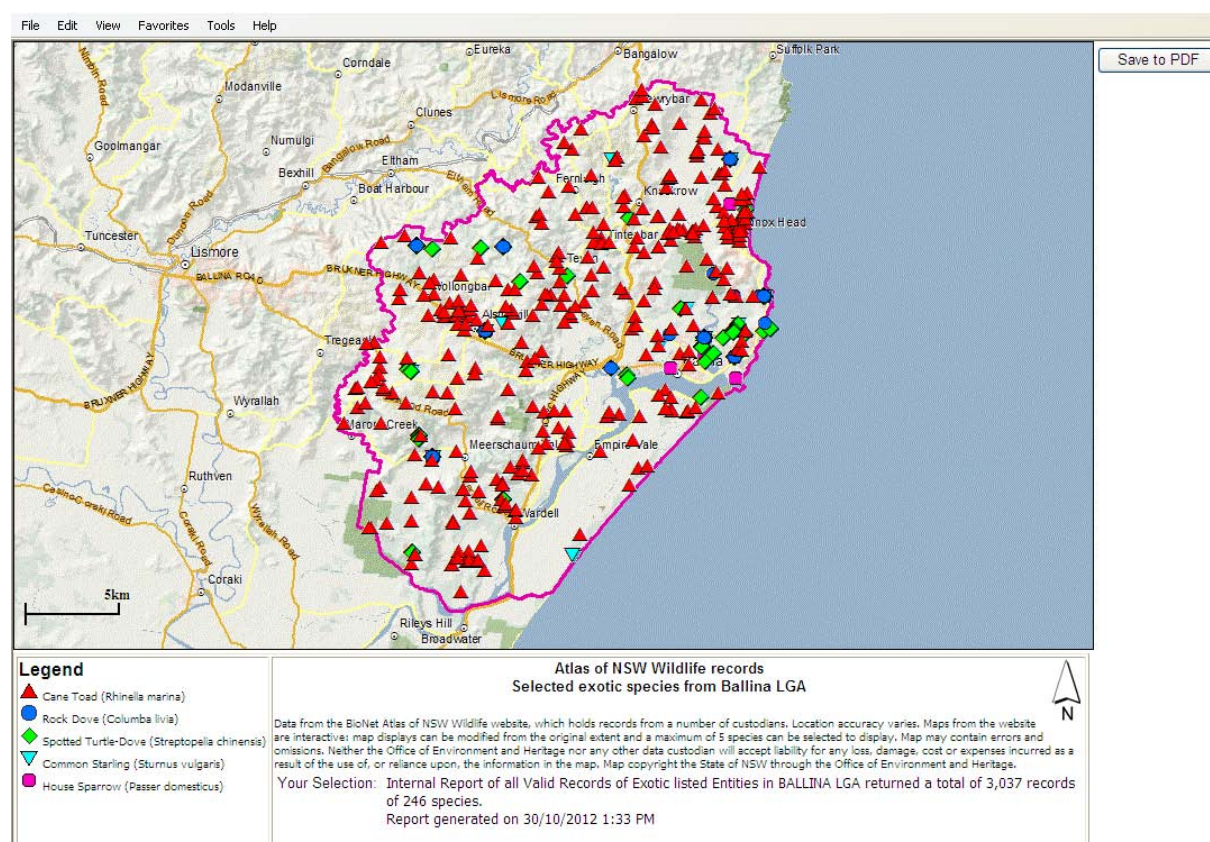
A **Print** pop-up displays, with the options **Title**, **Subtitle** and **Layout**. Details on entering values into these fields are contained in Table 10.

Table 10 - Print pop-up fields

Field	Format restrictions
Title	Free text, up to 100 characters.
Subtitle	Free text, up to 100 characters.
Layout	Click the appropriate radio button.

- Enter a **Title** and **Subtitle**.
- Select your preferred **Layout** option
- Click on the **Print Preview** button.


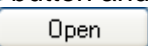
A map page displays.



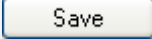
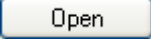
- To save or print the map, click on the **Save to PDF** button.

A **File Download** pop-up appears.




- To **save the map to file**, click on the  button and save as required.
- To **print the map (without saving)**, click on the  button and select the **Print** option from the **File** menu.

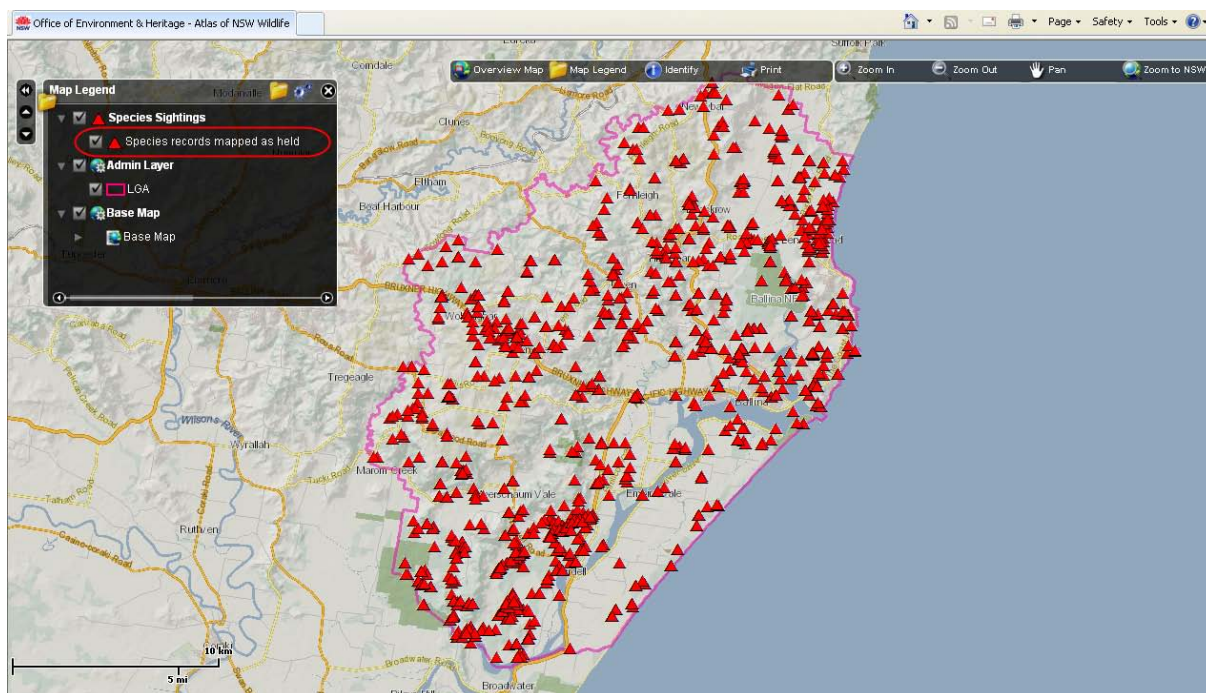
Tip

You might find that you need to click on the  or  buttons a second time to activate them.

Mapping Option 2: View all

- Without selecting any species, click on the  **View map** link button.

A new window with a map will display, zoomed to your area of interest. Note that the only difference between viewing all records or viewing selected species (up to five) is the display of the map legend and icons for species; instead of displaying unique icons for each different species, individual species will not be distinguished by differing icons, rather all species will be mapped with the same icon.



Species records mapped as held (see circled red, above) means the locations on the map are displayed as accurately as we have stored in the database (as distinct from mapping for public and licensed clients, which involves denaturing for Sensitive Species).

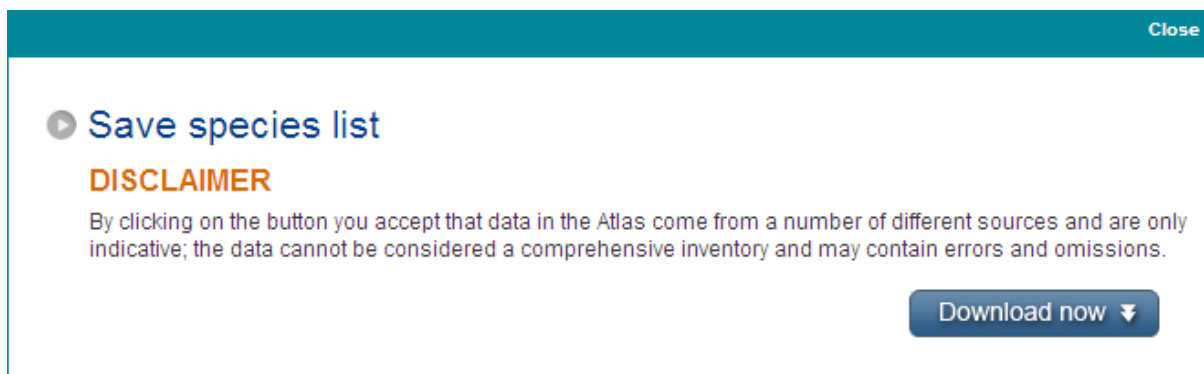
Refer to **Mapping option 1** for further advice on viewing and printing your map.

6.2.4 Save species list

The **Save species list** allows you to save a summary list.

- Click on the **Save species list** link button.


A **Save species list** disclaimer pop-up box appears.



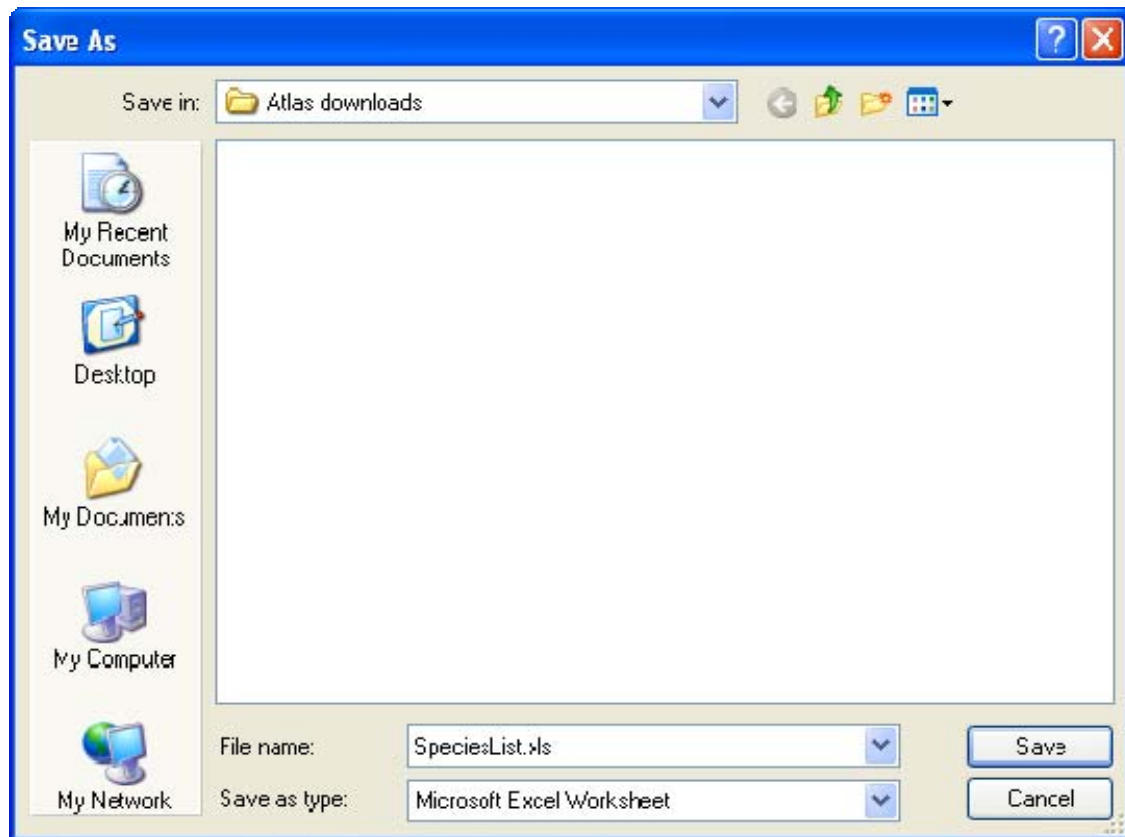
- Click on the **Download now** button.


A **File Download** pop up will display.



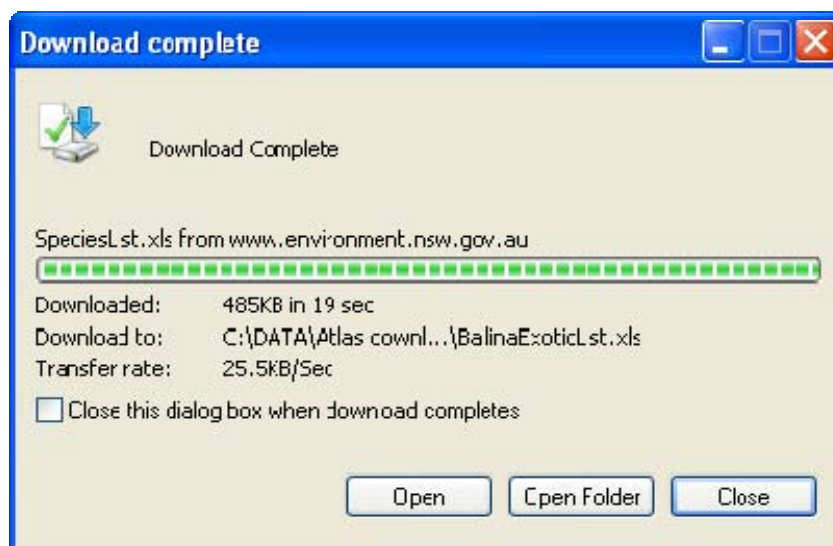
- Click on the  button (NB: you may need to click twice)

You will then be prompted to navigate to a directory on your computer to save the file to.

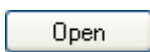


- Navigate to the appropriate path, rename the file and click on the  button.

Once downloaded, a **Download complete** pop-up will display.



The file will download, giving you the option to either **Open** the file directly, or open the saved file via the **Open folder** option.

- Click 
- The file will open in Excel.


	A	B	C	D	E	F	G	H	I	J	K
1	Data from the BioNet Atlas of NSW Wildlife website, which holds records from a number of custodians. The data are only indicative and cannot be considered a comprehensive inventory, and may contain errors and omissions.										
2	Species listed under the Sensitive Species Data Policy may have their locations denatured (^ rounded to 0.1°; ^^ rounded to 0.01°).										
3	Copyright the State of NSW through the Office of Environment and Heritage.										
4	Search criteria : Internal Report of all Valid Records of Exotic listed Entities in BALLINA LGA returned a total of 3,037 records of 246 species.										
5	Report generated on 30/10/2012 1:33 PM										
6	Kingdom	Class	Family	Species Code	Scientific Name	Exotic	Common Name	NSW status	Comm. status	Records	Info
7	Animalia	Actinopterygii	Poeciliidae	T013	<i>Gambusia holbrooki</i>	*	Mosquito Fish			1	
8	Animalia	Amphibia	Bufo	3269	<i>Rhinella marina</i>	*	Cane Toad			340	
9	Animalia	Aves	Phasianidae	0902	<i>Gallus gallus</i>	*	Red Junglefowl			1	
10	Animalia	Aves	Anatidae	0948	<i>Anas platyrhynchos</i>	*	Mallard			3	
11	Animalia	Aves	Anatidae	0816	<i>Anas superciliosa x platyrhynchos</i>	*	Pacific Black Duck Mallard Hybrid			1	
12	Animalia	Aves	Columbidae	0957	<i>Columba livia</i>	*	Rock Dove			273	
13	Animalia	Aves	Columbidae	0989	<i>Streptopelia chinensis</i>	*	Spotted Turtle-Dove			347	
14	Animalia	Aves	Pycnonotidae	0990	<i>Pycnonotus jocosus</i>	*	Red-whiskered Bulbul			2	
15	Animalia	Aves	Turdidae	0991	<i>Turdus merula</i>	*	Eurasian Blackbird			1	
16	Animalia	Aves	Sturnidae	0998	<i>Sturnus tristis</i>	*	Common Myna			1	
17	Animalia	Aves	Sturnidae	0999	<i>Sturnus vulgaris</i>	*	Common Starling			199	
18	Animalia	Aves	Estrildidae	0983	<i>Lonchura punctulata</i>	*	Nutmeg Mannikin			3	
19	Animalia	Aves	Passeridae	0995	<i>Passer domesticus</i>	*	House Sparrow			252	
20	Animalia	Mammalia	Muridae	1412	<i>Mus musculus</i>	*	House Mouse			38	
21	Animalia	Mammalia	Muridae	1408	<i>Rattus rattus</i>	*	Black Rat			28	
22	Animalia	Mammalia	Canidae	T106	<i>Canidae sp.</i>	*	unidentified canid			13	
23	Animalia	Mammalia	Canidae	1531	<i>Canis lupus</i>	*	Dingo, domestic dog			35	
24	Animalia	Mammalia	Canidae	1905	<i>Canis lupus familiaris</i>	*	Dog			1	
25	Animalia	Mammalia	Canidae	1532	<i>Vulpes vulpes</i>	*	Fox			199	
26	Animalia	Mammalia	Felidae	1536	<i>Felis catus</i>	*	Cat			8	
27	Animalia	Mammalia	Leporidae	1511	<i>Lepus capensis</i>	*	Brown Hare			5	
28	Animalia	Mammalia	Leporidae	1510	<i>Oryctolagus cuniculus</i>	*	Rabbit			8	
29	Animalia	Mammalia	Suidae	1514	<i>Sus scrofa</i>	*	Pig			4	
30	Animalia	Mammalia	Bovidae	1518	<i>Bos taurus</i>	*	European cattle			12	
31	Animalia	Mammalia	Cervidae	9112	<i>Cervus sp.</i>	*	Unidentified Deer			1	
32	Plantae	Flora	Acanthaceae	10771	<i>Hypoestes phyllostachya</i>	*				1	
33	Plantae	Flora	Alstroemeriaceae	6970	<i>Alstroemeria pulchella</i>	*	Parrot Alstroemeria			1	

The first five rows of the species list contain a standard disclaimer, the search criteria you input and the date of the search. Note that while the disclaimer includes a reference to records of Sensitive Species having their locations denatured, please note that this is the standard disclaimer that is used for all data extractions (i.e. OEH staff, external users obtaining data under a licence or members of the public). The denaturing will only apply

to those species annotated with a single carat ^ or double carat ^^ next to the species name (which will not apply to OEH staff extracting records for themselves using their OEH account)

The species list contains the fields as listed in Table 11.

Table 11 - Fields contained in the Species list

Field	Description
Kingdom	The Kingdom name to which the species belongs.
Class	The Class name to which the species belongs.
Family	The Family name to which the species belongs.
Species Code	A unique code attributed to an individual species, genus, or family. Codes can be obtained from the Census of Australia Vertebrate Species (CAVS) and Census of Australian Plant Species (CAPS) library fields.
Scientific Name	The scientific name by which the species is known.
Exotic	Introduced (non-native) species are denoted by an asterisk (*)
Common Name	The common name by which the species is known.
NSW Status	Refers to species listed under NSW legislation only. <ul style="list-style-type: none"> National Parks and Wildlife Act 1974 Threatened Species Conservation Act 1995 Fisheries Management Act 1994, and Sensitive Species Data Policy (OEH). Click on the NSW Status link button of the Search results page for a pop-up that displays an up to date list of values and their definitions.
Comm. Status	Refers to those species listed under Commonwealth legislation: <ul style="list-style-type: none"> Environment Protection and Biodiversity Conservation Act 1999, and Migratory Bird agreements (JAMBA, CAMBA and RoKAMBA). Click on the Comm. Status link button of the Search results page for a pop-up that displays an up to date list of values and their definitions.
Records	Refers to the number of individual records. Please note that in some cases a single record may have noted multiple individuals, however this cumulative count has not been calculated (i.e. if a single record noted 5 individuals sighted, this will only count as 1 toward the Record tally).
Info	If the species is threatened, an info icon  will display in this field. Clicking on the info icon links to the species profile in the threatened species website.

6.2.5 Download records

If you need to load the records into **ArcMap** (or utilise in **MS Access** or **Excel**), you can download the records as a text tab-delimited file.

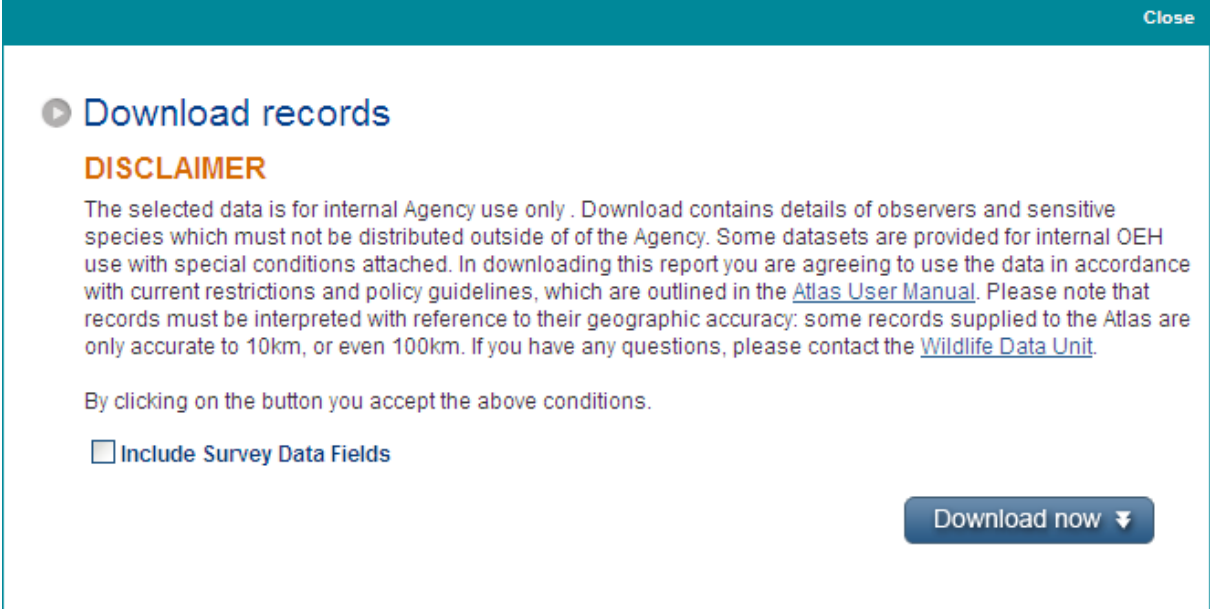
Note re: Communities, Populations and Key threatening processes

Entities (i.e. species, threatened Ecological Communities, Endangered Populations and Key Threatening Processes) that are listed in the **No. of records** field as a **K** or a **P** are included in the species list download, but NOT in the Download records. This means that **if you specifically require a comprehensive list of which Communities, Populations and Threats occur in your search area, you will need to save a species list** (in addition to downloading the details dataset).

- Click on the ► **Download records** link button.

Tip: Note that if nothing happens after clicking the **Download records** link button, please move you mouse.

A **Download records** pop-up displays.



Close

► Download records

DISCLAIMER

The selected data is for internal Agency use only . Download contains details of observers and sensitive species which must not be distributed outside of the Agency. Some datasets are provided for internal OEH use with special conditions attached. In downloading this report you are agreeing to use the data in accordance with current restrictions and policy guidelines, which are outlined in the [Atlas User Manual](#). Please note that records must be interpreted with reference to their geographic accuracy: some records supplied to the Atlas are only accurate to 10km, or even 100km. If you have any questions, please contact the [Wildlife Data Unit](#).

By clicking on the button you accept the above conditions.

☐ Include Survey Data Fields

Download now ▼

Note that the Download records pop-up includes a check box to include survey data fields. The default setting leaves this unchecked. While the steps to download the data are the same, refer to Table 9 for a list of additional fields provided when selecting **Include Survey Data Fields**.

- Click on the  button.

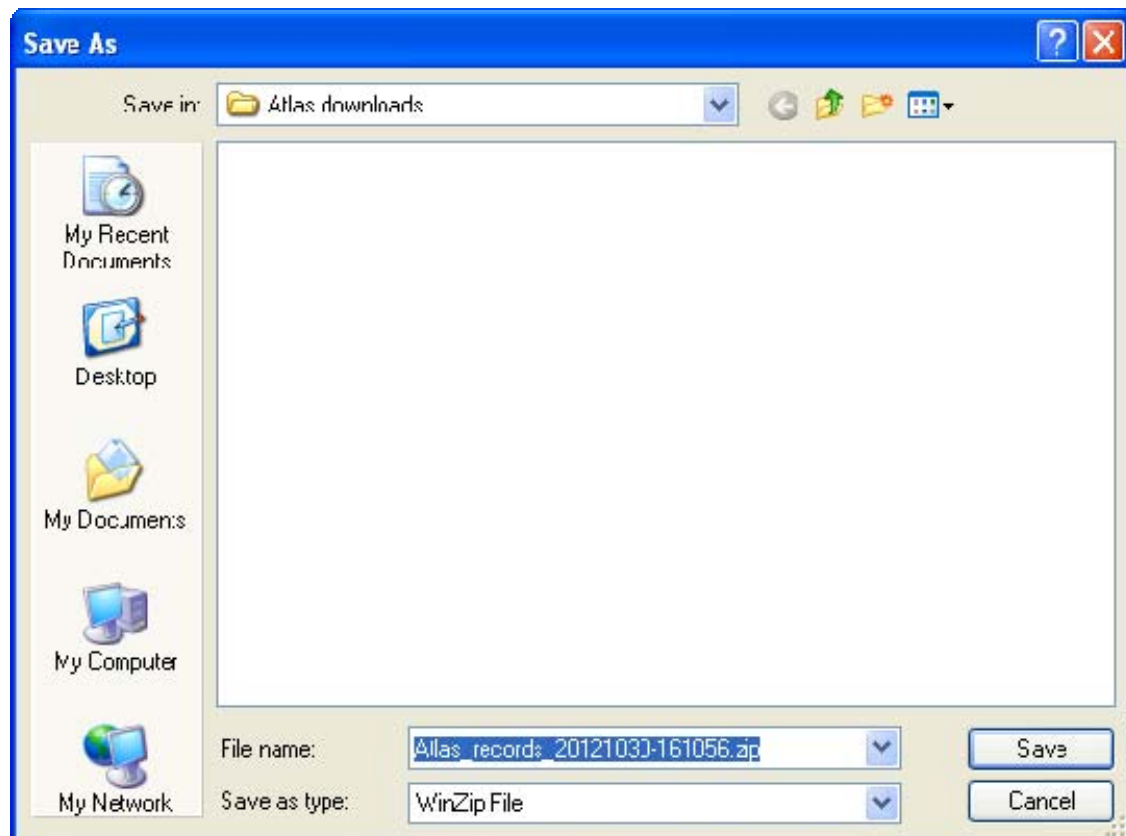
A **File Download** pop up will display.




You have the option to either Save in the first instance and then open, or open the file initially (and save after viewing). Following is advice on saving the file in the first instance.

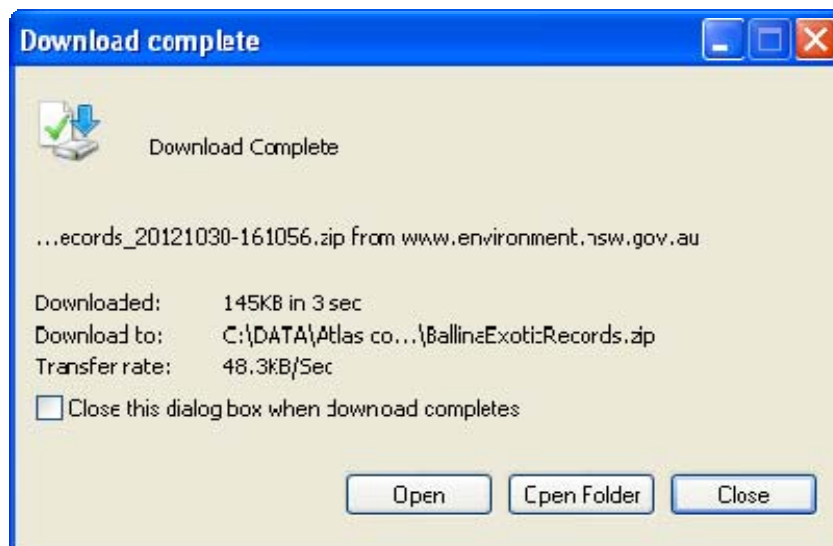
- Click on the  button.

You will then be prompted to navigate to a directory on your computer to save the file to.

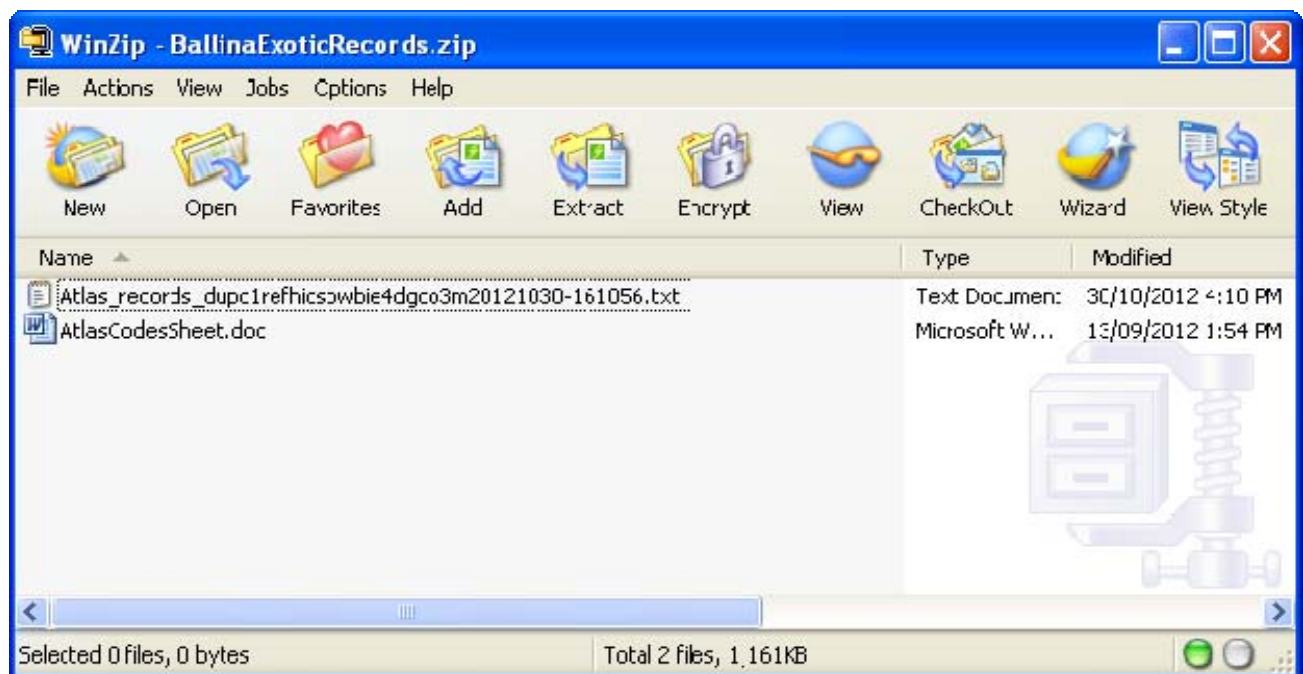


- Navigate to the appropriate path
- Rename the file as you wish
- Click on the  button.

The file will download giving you the option to either **Open** the file directly (in Excel), or open the file via the **Open folder** option.



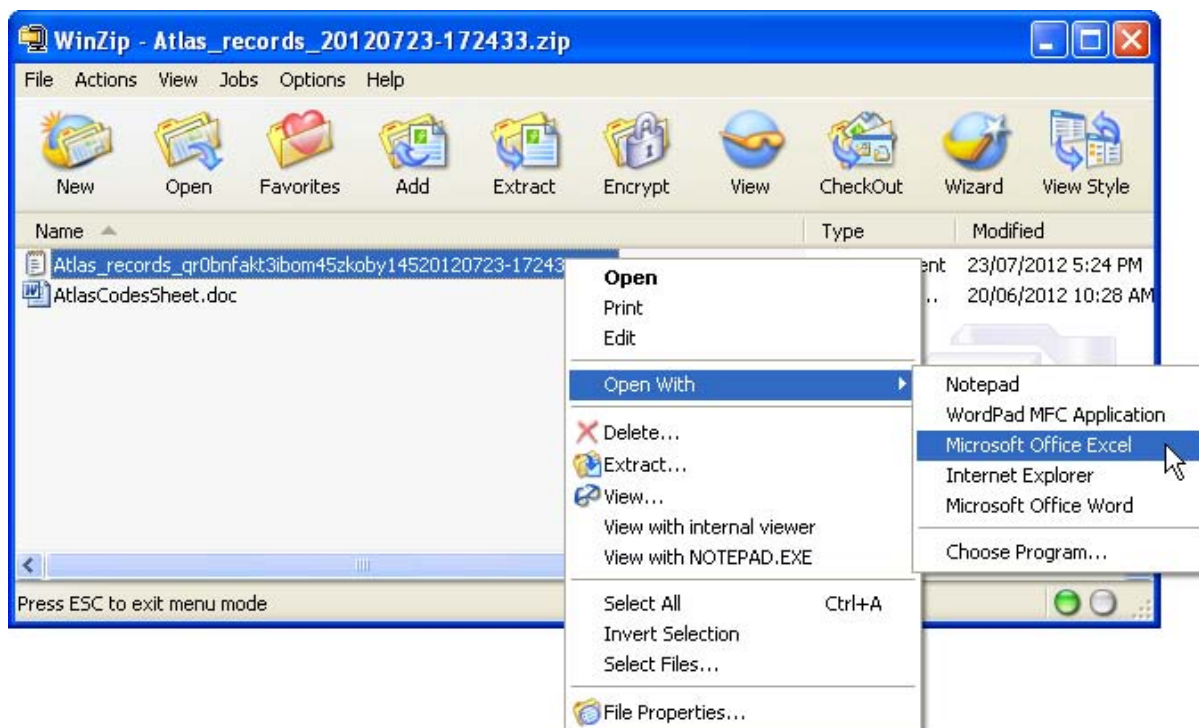
- If you select , a WinZip window will display



The zip file contains 2 files;

- **<filename>.txt** (the text file that contains the records)
- **AtlasCodesSheet.doc** (an explanation of each of the fields and the codes used)

To open the file, right mouse click on the text file in the WinZip window and select **Open with**, then chose **Microsoft Office Excel** (as shown below).



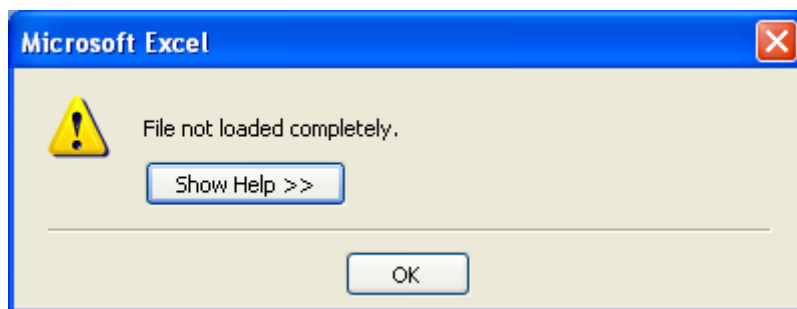
The text file opens in Microsoft Excel.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	Data from the BioNet Atlas of NSW Wildlife website, which holds records from a number of custodians. The data are only indicative and cannot be considered a comprehensive inventory, and may contain errors and omissions.																			
2	Location accuracy varies. Records of species listed under the Sensitive Species Data Policy are identified in the Sensitivity Class column (* rounded to 0.1A*, ** rounded to 0.01A*).																			
3	Copyright the State of NSW through the Office of Environment and Heritage.																			
4	Search criteria: Internal Report of all Valid Records of Exotic listed Animals in BALLINA LGA returned a total of 1776 records of 25 species. Report generated on 23/07/2012 5:45 PM																			
5	DatasetName SightingKe SpeciesCc KingdomN ClassNam FamilyNan SortOrder ScientificN Exotic CommonN NSW Statu Sensitivity DateFirst DateLast NumberInd EstimateT SourceCoc Observatio Status Observers LocationKe																			
6	Default Inc: SDMP050 T013 Fauna Actinopter Poeciliidae 49 Gambusia * Mosquito Fish 30/08/2009 4/09/2009 4 0 Valid and ? Katie Whit DMP012																			
7	Australian AM-R1405 3269 Fauna Amphibia Bufonidae 303 Rhinella m* Cane Toad 16/01/1992 16/01/1992 2 1 0 Valid and ? none provi AM-R1405																			
8	Bird lists a SPJG0236 3269 Fauna Amphibia Bufonidae 303 Rhinella m* Cane Toad 11/02/1993 11/02/1993 4 0 Valid and ? Greg P ClsLPJG0077																			
9	Dan Lunne WS-03612 3269 Fauna Amphibia Bufonidae 303 Rhinella m* Cane Toad 1/07/2004 30/06/2006 4 0 Valid and ? Unknown WS-03612																			
10	Dan Lunne WS-07994 3269 Fauna Amphibia Bufonidae 303 Rhinella m* Cane Toad 1/07/2004 30/06/2006 4 0 Valid and ? Unknown WS-07994																			
11	Dan Lunne WS-08647 3269 Fauna Amphibia Bufonidae 303 Rhinella m* Cane Toad 1/01/1980 30/06/2006 4 0 Valid and ? Unknown WS-08647																			
12	Dan Lunne WS-09014 3269 Fauna Amphibia Bufonidae 303 Rhinella m* Cane Toad 1/07/2004 30/06/2006 4 0 Valid and ? Unknown WS-09014																			
13	Dan Lunne WS-09021 3269 Fauna Amphibia Bufonidae 303 Rhinella m* Cane Toad 1/01/1980 30/06/2006 4 0 Valid and ? Unknown WS-09021																			
14	Dan Lunne WS-09271 3269 Fauna Amphibia Bufonidae 303 Rhinella m* Cane Toad 1/07/2004 30/06/2006 4 0 Valid and ? Unknown WS-09271																			
15	Dan Lunne WS-09451 3269 Fauna Amphibia Bufonidae 303 Rhinella m* Cane Toad 1/01/1980 30/06/2006 4 0 Valid and ? Unknown WS-09451																			
16	Dan Lunne WS-09469 3269 Fauna Amphibia Bufonidae 303 Rhinella m* Cane Toad 1/01/1980 30/06/2006 2 4 0 Valid and ? Unknown WS-09469																			
17	Dan Lunne WS-10014 3269 Fauna Amphibia Bufonidae 303 Rhinella m* Cane Toad 1/07/2004 30/06/2006 4 0 Valid and ? Unknown WS-10014																			
18	Dan Lunne WS-10180 3269 Fauna Amphibia Bufonidae 303 Rhinella m* Cane Toad 1/07/2004 30/06/2006 4 0 Valid and ? Unknown WS-10180																			
19	Dan Lunne WS-10182 3269 Fauna Amphibia Bufonidae 303 Rhinella m* Cane Toad 1/07/2004 30/06/2006 4 0 Valid and ? Unknown WS-10182																			
20	Dan Lunne WS-10194 3269 Fauna Amphibia Bufonidae 303 Rhinella m* Cane Toad 1/07/2004 30/06/2006 4 0 Valid and ? Unknown WS-10194																			
21	Dan Lunne WS-10199 3269 Fauna Amphibia Bufonidae 303 Rhinella m* Cane Toad 1/07/2004 30/06/2006 4 0 Valid and ? Unknown WS-10199																			
22	Dan Lunne WS-10380 3269 Fauna Amphibia Bufonidae 303 Rhinella m* Cane Toad 1/07/2004 30/06/2006 4 0 Valid and ? Unknown WS-10380																			
23	Dan Lunne WS-10385 3269 Fauna Amphibia Bufonidae 303 Rhinella m* Cane Toad 1/01/1980 30/06/2006 4 0 Valid and ? Unknown WS-10385																			
24	Dan Lunne WS-10663 3269 Fauna Amphibia Bufonidae 303 Rhinella m* Cane Toad 1/07/2004 30/06/2006 4 0 Valid and ? Unknown WS-10663																			
25	Dan Lunne WS-10854 3269 Fauna Amphibia Bufonidae 303 Rhinella m* Cane Toad 1/07/2004 30/06/2006 4 0 Valid and ? Unknown WS-10854																			
26	Dan Lunne WS-10858 3269 Fauna Amphibia Bufonidae 303 Rhinella m* Cane Toad 1/01/1980 30/06/2006 4 0 Valid and ? Unknown WS-10858																			
27	Dan Lunne WS-11840 3269 Fauna Amphibia Bufonidae 303 Rhinella m* Cane Toad 1/01/1980 30/06/2006 4 0 Valid and ? Unknown WS-11840																			
28	Dan Lunne WS-12059 3269 Fauna Amphibia Bufonidae 303 Rhinella m* Cane Toad 1/07/2004 30/06/2006 1 4 0 Valid and ? Unknown WS-12059																			
29	Dan Lunne WS-12582 3269 Fauna Amphibia Bufonidae 303 Rhinella m* Cane Toad 1/01/1980 30/06/2006 4 0 Valid and ? Unknown WS-12582																			
30	Dan Lunne WS-12584 3269 Fauna Amphibia Bufonidae 303 Rhinella m* Cane Toad 1/01/1980 30/06/2006 4 0 Valid and ? Unknown WS-12584																			
31	Dan Lunne WS-12955 3269 Fauna Amphibia Bufonidae 303 Rhinella m* Cane Toad 1/07/2004 30/06/2006 4 0 Valid and ? Unknown WS-12955																			
32	Dan Lunne WS-12962 3269 Fauna Amphibia Bufonidae 303 Rhinella m* Cane Toad 1/07/2004 30/06/2006 4 0 Valid and ? Unknown WS-12962																			
33	Dan Lunne WS-13397 3269 Fauna Amphibia Bufonidae 303 Rhinella m* Cane Toad 1/07/2004 30/06/2006 1 4 0 Valid and ? Unknown WS-13397																			
34	Dan Lunne WS-13400 3269 Fauna Amphibia Bufonidae 303 Rhinella m* Cane Toad 1/07/2004 30/06/2006 1 4 0 Valid and ? Unknown WS-13400																			
35	Dan Lunne WS-13413 3269 Fauna Amphibia Bufonidae 303 Rhinella m* Cane Toad 1/07/2004 30/06/2006 1 4 0 Valid and ? Unknown WS-13413																			
36	Dan Lunne WS-13416 3269 Fauna Amphibia Bufonidae 303 Rhinella m* Cane Toad 1/01/1980 30/06/2006 2 4 0 Valid and ? Unknown WS-13416																			
37	Dan Lunne WS-13453 3269 Fauna Amphibia Bufonidae 303 Rhinella m* Cane Toad 1/07/2004 30/06/2006 1 4 0 Valid and ? Unknown WS-13453																			
38	Dan Lunne WS-13661 3269 Fauna Amphibia Bufonidae 303 Rhinella m* Cane Toad 1/07/2004 30/06/2006 1 4 0 Valid and ? Unknown WS-13661																			
39	Dan Lunne WS-13667 3269 Fauna Amphibia Bufonidae 303 Rhinella m* Cane Toad 1/01/1980 30/06/2006 2 4 0 Valid and ? Unknown WS-13667																			

The text file contains the disclaimer, the search criteria and the date of the search.

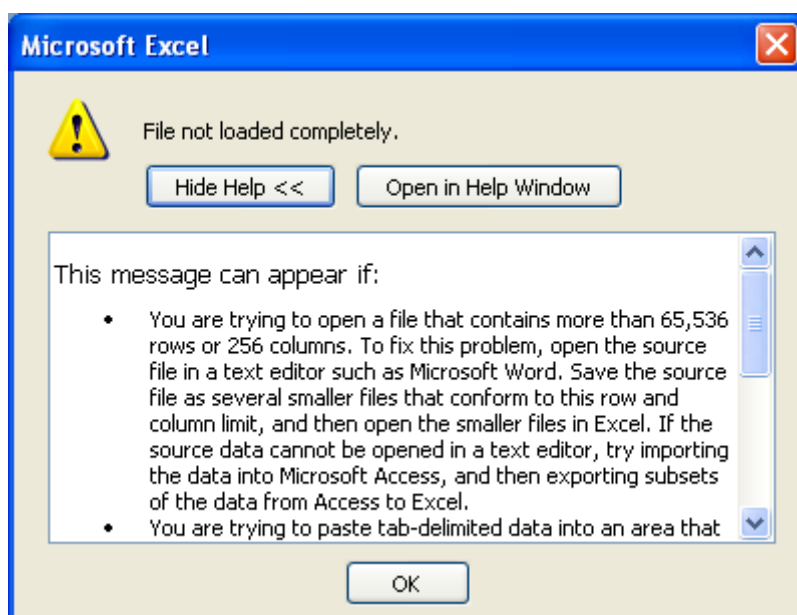
For descriptions of each of these fields and definitions of values, refer to the file **AtlasCodesSheet.doc**.

Note that if you choose to open your records and you have more than 65,536 records in the file, you will receive the following warning message;



This indicates that because of the size restrictions of Microsoft Excel, you will only see the first 65,536 records, all other records after have been truncated from the excel file.

You can click on the  button for information regarding this message.



- To avoid any records being lost from your file, close the excel file and either load the records directly into **ArcMap** (via the text file), or use **Microsoft Access** to view the records.

To load your records into ArcMap refer to [Appendix 1](#).

Survey data fields

If a record has been entered via either the Fauna survey or VIS Flora survey modules, details regarding some of the fields stored in the survey modules can be included in the report.

To include the Survey data fields in your data download, click on the tick box for Include Survey Data Fields prior to clicking the  button.

► Download records

DISCLAIMER

The selected data is for internal Agency use only. Download contains details of observers and sensitive species which must not be distributed outside of the Agency. Some datasets are provided for internal OEH use with special conditions attached. In downloading this report you are agreeing to use the data in accordance with current restrictions and policy guidelines, which are outlined in the [Atlas User Manual](#). Please note that records must be interpreted with reference to their geographic accuracy: some records supplied to the Atlas are only accurate to 10km, or even 100km. If you have any questions, please contact the [Wildlife Data Unit](#).

By clicking on the button you accept the above conditions.

☒ Include Survey Data Fields

Download now ▼

Note that the AtlasCodesSheet.doc does not include details for the additional fields. They are listed below in Table 12.

Table 12 - Additional fields included in download file when selecting 'Include Survey data fields'.

Field Name	Description
MicrohabitatType	The small-scale habitat (e.g. <i>on ground</i> , or <i>in tree</i>).
SurveyName	The name of the Survey.
CensusKey	The unique key assigned to a Census. A Census is a time distinct assessment conducted within a survey at a designated site.
TechniqueType	The specific survey technique used to record a species (e.g. Elliott trapping, Site spotlighting).
SiteNo	Unique code which has been assigned to an existing location in Atlas.
Effort	A numeric value which is read in conjunction with the EffortUnits field to determine the Survey effort.
EffortUnits	The unit by which the Effort value is calculated. Effort units include the values; <ul style="list-style-type: none"> • Hours • Minutes • Person hours • Trap nights
NoOfPeople	No of people involved in conducting the survey (used to work out effort).
NoOfTraps	No of traps used during survey (used to work out effort).
WithinBdry	If the call was heard within the site boundary (Yes or No). Only applies to the following technique type; <ul style="list-style-type: none"> • Nocturnal playback • Diurnal Bird • Nocturnal Streamside
EstDistance	The estimated distance that the species is location from the observers position. Specific to the following technique types only; <ul style="list-style-type: none"> • Nocturnal playback

	<ul style="list-style-type: none"> • Diurnal Bird • Nocturnal Streamside
TrapNo	<p>Unique trap identifier assigned by the surveyor.</p> <p>Only applies to the following;</p> <ul style="list-style-type: none"> • Elliott trap • Cage trapping • Pitfall • Hairtube
ParentKey	<p>For records that have been collected as part of the 'predator/prey' technique type, where the record in question is a prey species, the Parent Key is the sighting key of the predator.</p>
TimeResponding	<p>The period or interval between call playback and animal response.</p> <p>Either;</p> <ul style="list-style-type: none"> • 0 to 3 minutes after playback • 3 to 5 minutes after playback • During final listening period • During Initial period • During playback

Tips and troubleshooting for current known bugs in the Atlas Search module.

1. Accuracy filter and Mapping. If you include an accuracy filter in your search criteria (i.e. at Step 6. Accuracy? you select either Records with Accuracy 100m or better, or Records with Accuracy 1000m or better), if you then select View Map, ALL records will show for your species/search area, rather than only those that meet the accuracy criteria you searched on).

2. Internet Browser and using the Enter key. In some Internet Browsers (such as Firefox and Chrome) using the Enter key to make a selection (such as selection a species name to search on) will attempt to submit the search criteria. To avoid this issue, please use your mouse to make selections.

Figure 5 - Troubleshooting for current known bugs in the Atlas Search Module

7. Codes and species

7.1 Codes

The Codes menu allows you view access to the full list of values for all available for fields (other than species codes) e.g. codes for observation types, breeding types and geology. Note that this is the full listing of codes for use across all Atlas modules (i.e. Atlas Sightings, Fauna survey, VIS Flora survey and TS Profiles). You would only realistically use the Codes menu if you had generated a report and wished to clarify the descriptions for specific Codes (e.g. you wanted to confirm the meaning of letters in the observation type column).

Only WDU are able to edit the codes.

7.1.1 Search on an existing code

- Click on the **Codes** menu.



A **Codes Maintenance** search screen will display.

Code Maintenance 59:28 [Reset timer](#)

Search Class

[Search](#) [Clear](#)

- Enter all (or part) of a **Search class** (e.g. observation) to search on all classes that contain that value.

All Classes that contain your search phrase will appear in the result list.

Search Class

[Search](#) [Clear](#)

Results 1-1 of 1

Class	Description	
56	Observation Type	Select

- To display all available values for a specific Class (e.g. values for **observation** would include **observed**, **heard call**, **scat** etc), click on the [Select](#) link button (located in the right hand column).

The results will display as shown below.

Results 1-10 of 28 1 2 3

Code Name	Description	Code Value	
A	Stranding/beached	99	
B	Burnt	99	
C	Cat kill	99	
D	Dog kill	99	
E	Nest/roost	99	
F	Tracks, scratchings	99	
FB	Burrow	99	
G	Crushed Cones	99	
H	Hair, feathers or skin	99	
I	Subfossil/Fossil Remains	99	

Note that only 10 values are displayed per page.

- To view all values for each field class, click on the respective page numbers 1 [2](#) [3](#).

7.2 Species

The Species menu provides taxonomic details for all flora, fauna and fungi taxa maintained within the Atlas. Note that fungi is included in the flora option.

7.2.1 Search for an existing species

- Click on the **Species** menu.



A **Species Maintenance** page appears.

Species Maintenance

Search Species

Scientific Name

Species Code

Species Type

Common Name

☐ Fauna ☐ Flora

Search

Clear

New

- Ensure the correct **species type** is selected and enter full (or partial) values into any of the available search fields (**scientific name**, **common name** or **species code**).
- Click on the **Search** button.

All available species that **contain** your search value will return (as shown below for the search term '**cockatoo**').

Species Maintenance

53:39 [Help](#)

Search Species

Scientific Name

Species Code

Species Type

Common Name

☐ Fauna ☐ Flora

Search

Clear

Results 1-10 of 14

1 2

Species code	Scientific name	Common name	
0269	Cacatua galerita	Sulphur-crested Cockatoo	Review Spatial distribution
G/PH	Cacatua Hybrid	Galah/Pink Cockatoo	Review Spatial distribution
L/PH	Cacatua Hybrid	Little Corella/Pink Cockatoo	Review Spatial distribution
0270	Cacatua leadbeateri	Major Mitchell's Cockatoo	Review Spatial distribution
0268	Callocephalon fimbriatum Subspecies name	Gang-gang Cockatoo	Review Spatial distribution
0264	Calyptorhynchus banksii	Red-tailed Black-Cockatoo	Review Spatial distribution
8858	Calyptorhynchus banksii banksii	Red-tailed Black-Cockatoo (coastal subspecies)	Review Spatial distribution
8857	Calyptorhynchus banksii samuelli	Red-tailed Black-Cockatoo (inland subspecies)	Review Spatial distribution
0266	Calyptorhynchus baudinii	Long-billed Black-Cockatoo	Review Spatial distribution
0267	Calyptorhynchus funereus	Yellow-tailed Black-Cockatoo	Review Spatial distribution

7.2.2 Review an existing species

- Click on the [Review](#) link button.

The **species maintenance** page opens.

Species Maintenance page for FAUNA (e.g. *Gang-gang Cockatoo*).

Species Maintenance

Species Type	Fauna	Layer	Mapsheet Number	Currently Accepted	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Species Details					
Species code	0264	Scientific Name	Calyptorhynchus banksii		
Taxon Code	0264	Taxon Name	Calyptorhynchus banksii		
Latest Taxon Code	0264	Latest Taxon	Calyptorhynchus banksii		
External SpeciesID					
Genus Name	Calyptorhynchus	Species Name	banksii		
Authority		Subspecies Name			
Order	Psittaciformes	Family Name	Cacatuidae		
Synonyms	C. magnificus	Class	Aves		
Taxonomy	Australian Fauna Directory 16/4/2002				
Common Name	Red-tailed Black-Cockatoo	Other Common Names			
Bio Status Name	Alive in NSW, Native	General Type	Bird		
TSC Act		Date Listed			
Commonwealth Status		CITES Status			
NPWS Status	Protected Fauna	Sensitivity Class	Sensitivity Class 2		
CAMBA	<input type="checkbox"/>	Fauna Keeper Class			
JAMBA	<input type="checkbox"/>	ROKAMBA	<input type="checkbox"/>		
History					
Date created	15/12/1996 1:31:26 PM	Created by	Atlas Conversion		
Date Updated	30/01/2006 5:20:35 PM	Updated by	Philip Gleeson		
Search Again					

The (fauna) **species maintenance** page contains details for taxonomy and legal status, as detailed in Table 13.

Table 13 - Fauna species maintenance fields

Field	Description
Species type	Fauna.
Layer	The geographic layer type by which the species' accepted spatial distribution is defined.
Currently Accepted	Refers to whether the species is the most current taxonomy. Yes indicates this species is the current taxonomy; No indicates the species is a synonym of another species.
Species code	The unique code assigned to the species. Uses the CAVS code as assigned by ABRS. If a CAVS code has not yet been assigned, a temporary code beginning with the letter 'T' will be created.
Scientific Name	The Scientific name.
Taxon Code	If the species is a synonym of another species, this field will contain the unique species code of the most current name.
Taxon Name (Search)	If the species is a synonym of another species, this field will contain the most current scientific name by which the species is known.
Latest Taxon code	If the species is a synonym of another species, this field will contain the unique species code of the most current name. This will only differ from the Taxon Name if the name has changed more than once.
Latest Taxon	If the species is a synonym of another species, this field will contain the most current scientific name by which this species is known.
External SpeciesID	Where another organisation lists the species under a different unique code.
Genus Name	The Genus name.
Species Name	The Species name.
Subspecies Name	The Subspecies name.

Authority	The name of the person responsible for describing the taxon.
Family Name	The Family name.
Order	The Order name.
Class	The Class name.
Synonyms	Any other scientific names by which this species has been previously known. Note that these may not necessarily be within the Atlas.
Taxonomy	The taxonomic reference from which the details of this species taxonomy were obtained (e.g. taxonomic website, scientific journal).
Common Name	The main common name by which this species is known.
Other Common Names	Any other common names by which this species is known.
Bio Status Name	The species' biological status in NSW.
General Type	The general category to which this species belongs.
TSC Act	<p>If the species is listed under the <i>Threatened Species Conservation Act 1995</i> (TSC Act), one of the following legal status listings will display;</p> <ul style="list-style-type: none"> • E – Endangered • E2 - Endangered population • E4 - Presumed Extinct • E4A - Critically endangered species • V - Vulnerable <p>www.legislation.nsw.gov.au/maintop/view/inforce/act+101+1995+cd+0+N</p>
Date Listed	If the species is listed under the TSC Act, the date the species was gazetted.
Commonwealth Status	<p>If the species is listed under the <i>Environment Protection and Biodiversity Conservation Act 1999</i> (EPBC Act), one of the following legal status listings will display;</p> <ul style="list-style-type: none"> • CD - Conservation dependant • CE - Critically endangered • E - Endangered • V - Vulnerable • X - Extinct • XW - Extinct in the wild <p>www.environment.gov.au/epbc/about/index.html</p>
CITES Status	<p>The Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) is an international agreement between governments. Listing is either;</p> <ul style="list-style-type: none"> • Appendix I • Appendix II • Appendix III <p>www.cites.org</p>
NPWS Status	<p>If the species is listed under the <i>NSW National Parks and Wildlife Act 1974</i> (NPW Act), the following legal status listings will display;</p> <ul style="list-style-type: none"> • P – Protected Fauna <p>www.legislation.nsw.gov.au/maintop/view/inforce/act+80+1974+cd+0+N</p>
Sensitivity Class	<p>If the species is listed under OEH's Sensitive Species Data Policy, one of the following will display;</p> <ul style="list-style-type: none"> • Sensitivity Class 1 • Sensitivity Class 2 • Sensitivity Class 3 <p>www.environment.nsw.gov.au/policiesandguidelines/SensitiveSpeciesPolicy.htm</p>
CAMBA	<p>If the species is listed on the China-Australia Migratory Bird Agreement.</p> <p>www.environment.gov.au/biodiversity/migratory/waterbirds/bilateral.html</p>
Fauna Keeper Class	Those species which require a licence for people to keep.

	<ul style="list-style-type: none"> Class 1 licence – refers to species that are easy to look after Class 2 licence – refers to species that are rare and more difficult to keep www.environment.nsw.gov.au/wildlifelicences/
JAMBA	If the species is listed on the Japan-Australia Migratory Bird Agreement. www.environment.gov.au/biodiversity/migratory/waterbirds/bilateral.html
ROKAMBA	If the species is listed on the Republic of Korea-Australia Migratory Bird Agreement. www.environment.gov.au/biodiversity/migratory/waterbirds/bilateral.html

- To search on another species, click on the Search Again button.

You will be returned to the **Species Maintenance Search** page.

Species Maintenance page for FLORA (e.g. *Waratah*).

59:16 Reset

Species Type Flora Layer Botanical Division Currently Accepted ☐ Yes ☒ No

Species Details

Species code 5488

Taxon Code 9506

Latest Taxon Code 9506

External SpeciesID

Scientific Name Telopea speciosissima

Taxon Name Telopea speciosissima Search

Latest Taxon Telopea speciosissima

PATN Label Telospec

Spatial distribution

Genus Name Telopea

Subspecies Rank

Is Hybrid ☐ Yes ☒ No

Is Cultivar ☐ Yes ☒ No

Authority

Order Flora

Synonyms Telopea speciosissima

Taxonomy

Common Name Waratah

Species Name speciosissima

Subspecies Name

Hybrid Rank

Cultivar Name

Family Name Proteaceae

Class Flora

Other Common Names

Bio Status Name Alive in NSW, Native

TSC Act

Commonwealth Status

General Type

Date Listed

CITES Status

NPWS Status

NPWS Flowers

NPWS Whole Plant

Sensitivity Class

NPWS Foliage

Extent Type

Adequacy Type

Conservation Type

Threat Type

History

Date created 15/12/1995 1:50:22 PM

Date Updated 27/02/2007 7:02:05 PM

Created by Atlas Conversion

Updated by Philip Gleeson

The (flora) **species maintenance** page contains details for taxonomy and legal status, as detailed in Table 14.

Table 14 - Flora species maintenance fields

Field	Description
Species type	Flora.
Layer	The geographic layer type by which the species' spatial distribution is defined.
Currently Accepted	Refers to whether this species is the most current taxonomy. Yes indicates this species is the current taxonomy; No indicates this species is a synonym of another species.
Species code	The unique code assigned to the species by OEH. Note that fungi species are grouped under flora and are prefaced by the letter 'F'.
Scientific Name	The scientific name.
Taxon Code	The unique species code.

Taxon Name (Search)	If the species is a synonym of another species, this field will contain the unique species code of the most current name.
Latest Taxon code	If the species is a synonym of another species, this field will contain the unique species code of the most current scientific name by which this species is known. This will only differ from the taxon code if the name has changed more than once.
Latest Taxon	If the species is a synonym of another species, this field will contain the most current scientific name by which this species is known.
External SpeciesID	Where another organisation lists the species under a different unique code.
PATN Label	A unique eight character code generally made up of the first four letters of the Genus and the first four letters of the Species. Used to allow statistical analysis of flora survey data to be undertaken.
Genus Name	The Genus name.
Species Name	The Species name.
Subspecies Rank	The Subspecies rank.
Subspecies Name	The Subspecies name.
Is Hybrid	If the species is a hybrid (i.e. the offspring of genetically different parents, usually applied where the parents are of different species).
Hybrid Rank	If the species is a hybrid, the rank term.
Is Cultivar	If the species is a cultivar (i.e. a variety developed in cultivation).
Cultivar Rank	If the species is a hybrid, the rank term.
Authority	The name of the person responsible for describing the taxon.
Family Name	The Family name.
Order	The Order name.
Class	The Class name.
Synonyms	Any other scientific names by which this species has been previously known.
Taxonomy	The taxonomic reference from which the details of this species taxonomy were obtained (e.g. taxonomic website, scientific journal).
Common Name	The main common name by which this species is known.
Other Common Names	Any other common names by which this species is known.
Bio Status Name	The species' biological status in NSW.
General Type	The general category to which the species belongs.
TSC Act	<p>If the species is listed under the <i>Threatened Species Conservation Act 1995</i> (TSC Act), one of the following legal status listings will display;</p> <ul style="list-style-type: none"> • E – Endangered • E2 - Endangered population • E4 - Presumed Extinct • E4A - Critically endangered species • V - Vulnerable <p>www.legislation.nsw.gov.au/maintop/view/inforce/act+101+1995+cd+0+N</p>
Date Listed	If the species is listed under the TSC Act, the date the species was gazetted.
Commonwealth Status	<p>If the species is listed under the <i>Environment Protection and Biodiversity Conservation Act 1999</i> (EPBC Act), one of the following legal status listings will display;</p> <ul style="list-style-type: none"> • CD - Conservation dependant • CE - Critically endangered • E – Endangered • V – Vulnerable • X – Extinct • XW - Extinct in the wild

	www.environment.gov.au/epbc/about/index.html
CITES Status	<p>The Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) is an international agreement between governments. Listing is either;</p> <ul style="list-style-type: none"> • Appendix I • Appendix II • Appendix III <p>www.cites.org</p>
NPWS Status	<p>If the species is listed under the <i>NSW National Parks and Wildlife Act 1974</i> (NPW Act), the following legal status listings will display;</p> <ul style="list-style-type: none"> • P – Protected Plants <p>www.legislation.nsw.gov.au/maintop/view/inforce/act+80+1974+cd+0+N</p>
Sensitivity Class	<p>If the species is listed under OEH's Sensitive Species Data Policy, one of the following will display;</p> <ul style="list-style-type: none"> • Sensitivity Class 1 • Sensitivity Class 2 • Sensitivity Class 3 <p>www.environment.nsw.gov.au/policiesandguidelines/SensitiveSpeciesPolicy.htm</p>
NPWS Flowers	<p>A subset of protected plants, as listed under the <i>NSW National Parks and Wildlife Act 1974</i> (NPW Act)</p> <p>www.legislation.nsw.gov.au/maintop/view/inforce/act+80+1974+cd+0+N</p>
NPWS Foliage	<p>A subset of protected plants, as listed under the <i>NSW National Parks and Wildlife Act 1974</i> (NPW Act)</p> <p>www.legislation.nsw.gov.au/maintop/view/inforce/act+80+1974+cd+0+N</p>
NPWS Whole Plants	<p>A subset of protected plants, as listed under the <i>NSW National Parks and Wildlife Act 1974</i> (NPW Act)</p> <p>www.legislation.nsw.gov.au/maintop/view/inforce/act+80+1974+cd+0+N</p>
Extent type	Coding pertaining to species identified in <i>Rare or Threatened Australian Plants</i> . See Briggs, J.D. and Leigh, J.H. (1995) <i>Rare or Threatened Australian Plants, Revised Edition</i> , C.S.I.R.O Publishing, Victoria.
Conservation type	Coding pertaining to species identified in <i>Rare or Threatened Australian Plants</i> . See Briggs, J.D. and Leigh, J.H. (1995) <i>Rare or Threatened Australian Plants, Revised Edition</i> , C.S.I.R.O Publishing, Victoria.
Adequacy type	Coding pertaining to species identified in <i>Rare or Threatened Australian Plants</i> . See Briggs, J.D. and Leigh, J.H. (1995) <i>Rare or Threatened Australian Plants, Revised Edition</i> , C.S.I.R.O Publishing, Victoria.
Threat type	Coding pertaining to species identified in <i>Rare or Threatened Australian Plants</i> . See Briggs, J.D. and Leigh, J.H. (1995) <i>Rare or Threatened Australian Plants, Revised Edition</i> , C.S.I.R.O Publishing, Victoria.

8. Glossary

Atlas

The Atlas of NSW Wildlife. This is a composite database composed of records from the constituent modules; i.e. the Atlas module, VIS Flora survey module and Fauna survey module.

CAPS

Census of Australian Plant Species taxa. A unique identification code for individual plant species, as maintained by the NSW Office of Environment and Heritage.

CAVS

Census of Australian Vertebrate Species taxa. A unique identification code for individual vertebrate species, as maintained by the Department of Sustainability, Environment, Water, Population and Communities.

Custodian

Typically the Licensee of an Atlas data licence agreement, or the signatory of an Atlas data provider agreement. They are identified as the person/organisation primarily responsible for data saved within a dataset.

Dataset

Within the Atlas there are various types of users, each with different access rights. The access rights (i.e. view or edit) that individual users have for particular records are defined at the dataset level.

Module

The Atlas of NSW Wildlife is a composite database comprising underlying systems, referred to as Modules. The modules include:

- Atlas sightings
- Fauna survey
- VIS flora survey

Observer

The name of the person who sighted/recorded a species.

OEH

The Office of Environment and Heritage. The body of the NSW state government responsible for maintaining the Atlas. The OEH sits within the Department of Premier and Cabinet.

Pop-up

Distinct windows that appear on screen allowing for data entry, review, or to convey information regarding successful saves. Working within a pop-up does not mean that you have navigated from the page previously being viewed, consequently your session timer will *not* be reset while working within a pop-up.

Sensitive species data policy

This policy lists species identified as sensitive to disturbance and exploitation and restricts the supply of precise locational information about these species. Further information is available via the Policy link;

www.environment.nsw.gov.au/policiesandguidelines/SensitiveSpeciesPolicy.htm

WDU

The Wildlife Data Unit, refers to the section within the OEH that is responsible for the maintenance of the Atlas application and the composite modules. If you have any queries regarding the Atlas database, the WDU should be your first point of contact – atlas@environment.nsw.gov.au.

WLMU


The Wildlife Licensing and Management Unit, refers to the section within the OEH that manage wildlife and scientific licences.

9. Appendix

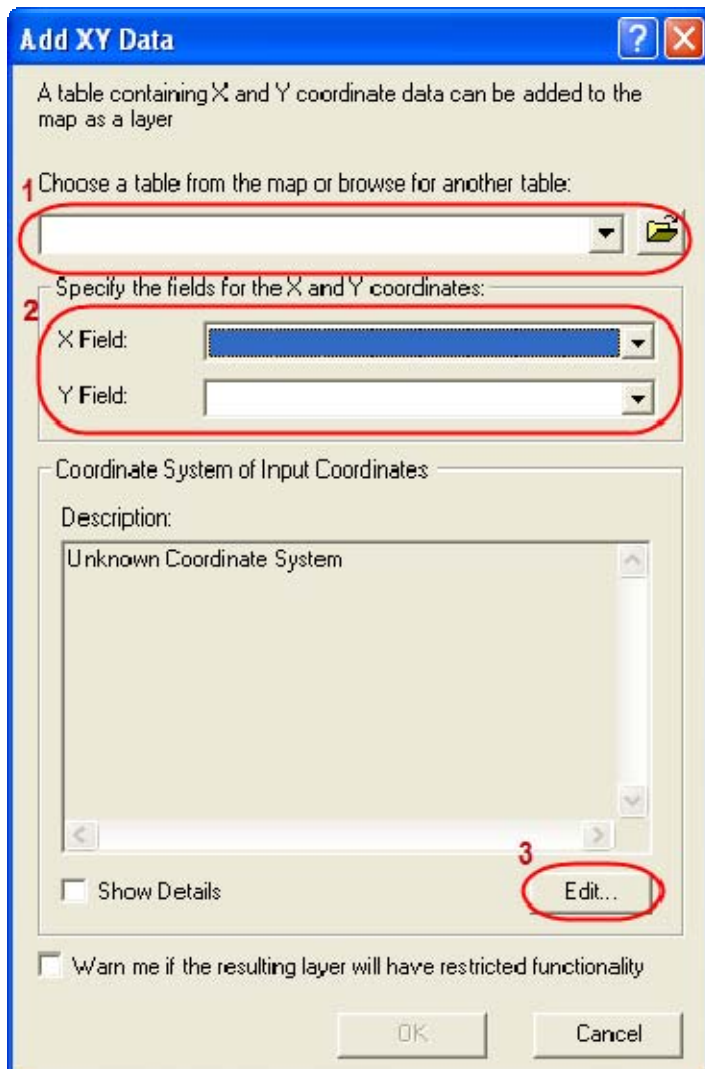
9.1 Loading your records into ArcMap

The following instructions relate to adding your data to a new ArcMap file in GDA Geographics. If adding to an existing file, you may need to alter steps accordingly (depending on the properties of the existing map).


NB: Before loading your file into ArcMap, delete the first four rows from your text file (i.e. the disclaimer and search criteria) so that only the header row remains.

- Open **ArcMap** (Start -> Programs -> ArcGIS -> ArcMap).
- Click  to start a new empty map.
- Under the **Tools** drop-down menu select **Add XY data**.

An **Add XY** pop up will display (the three steps you need to populate are highlighted below);

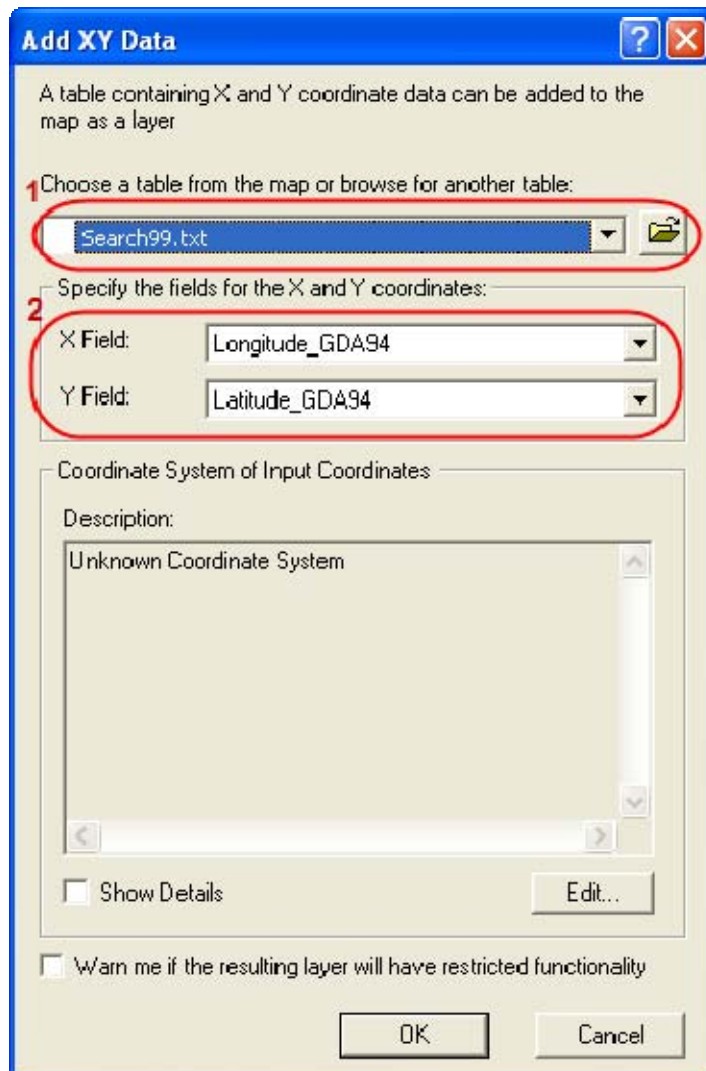


Add XY - Step 1

- Browse to the location of your text file to select it.
- Click the  button.

Add XY – Step 2

The **X Field** and **Y Field** should then auto-populate with appropriate fields (see **Step 2** in following screen shot)



NB: Where you would prefer the other coordinate system to be selected (i.e. Easting / Northing), use the drop-down menu to alter the selection.

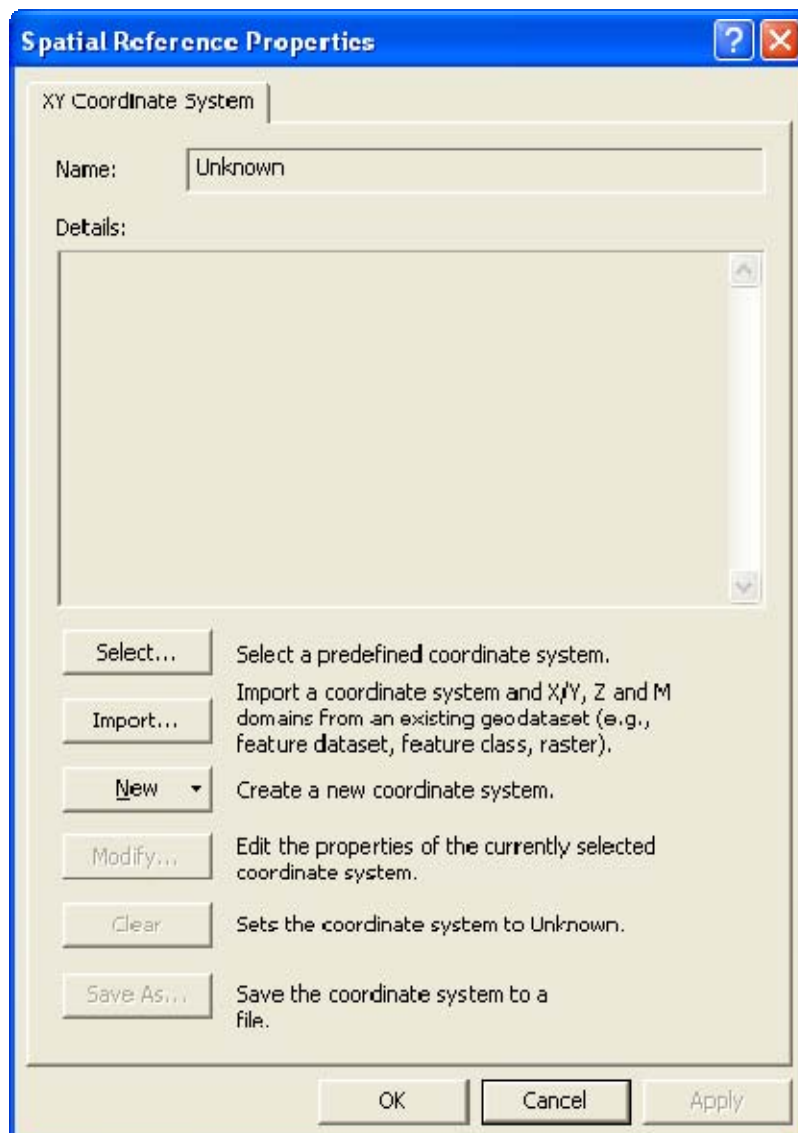
NB: Occasionally ArcMap may experience problems automatically selecting fields for **X Field** and **Y Field**. If this happens try re-saving your file as type **.dbf** before adding.

Add XY – Step 3

Finally, you need to define the coordinate system of the file you are adding.

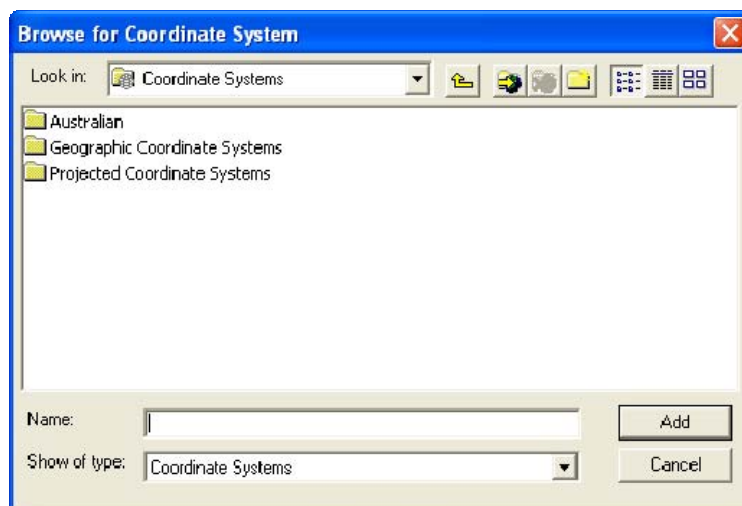
- Click the **Edit...** button.

A **Spatial Reference Properties** pop-up will display.



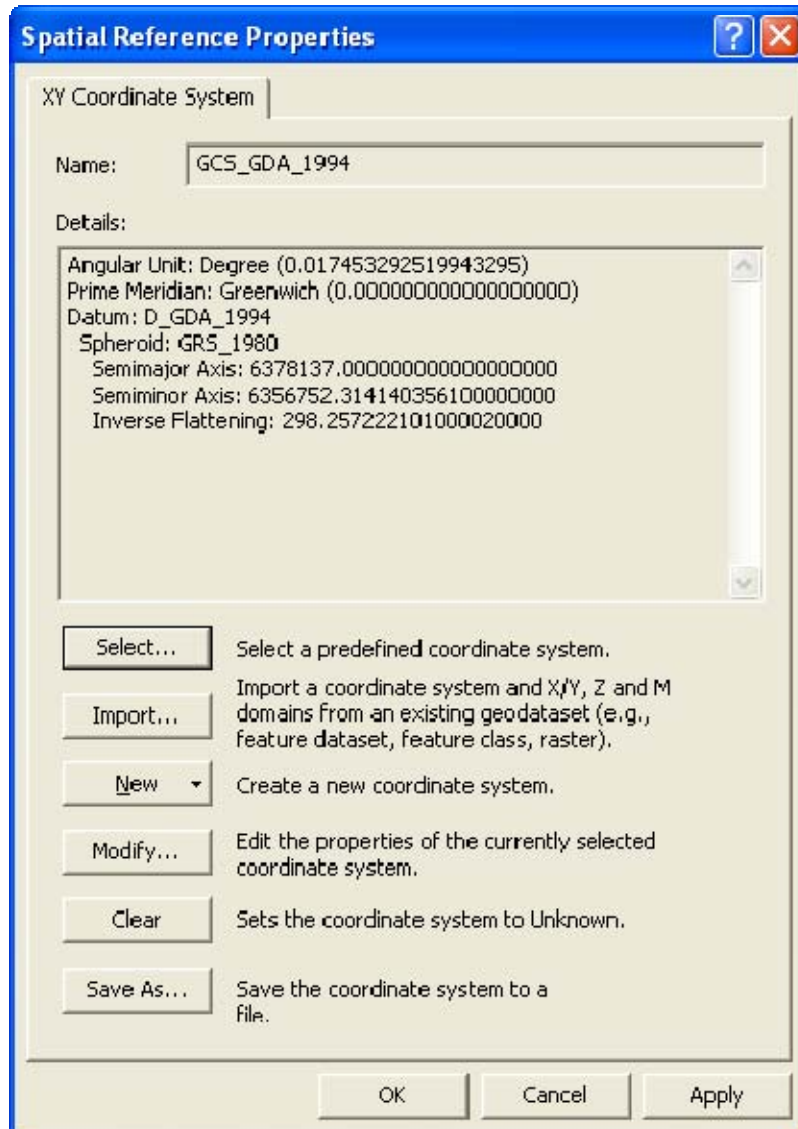
- Click the **Select...** button.


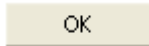

A **Browse for Coordinate system** pop-up will display.



- Double click on the **Australian** folder.
- Double click on **GDA94** (the default coordinates system for Atlas exports).
- Select **Geocentric Datum of Australia 1994.prj** (if you wish your coordinates to display as Latitude/Longitude).
- Click the  button.

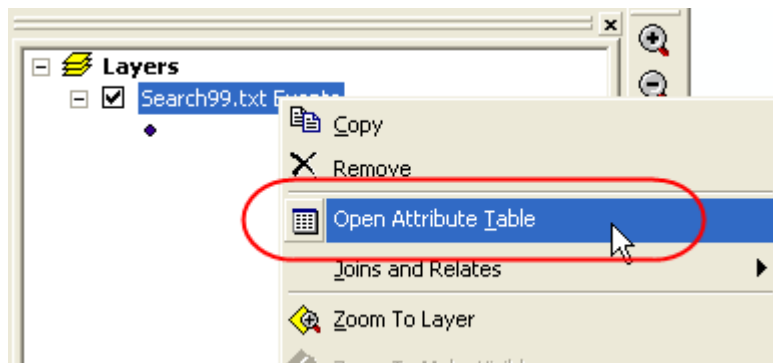
The **Spatial Reference Properties** will display as follows;



- Click on the  then the  buttons.
- In the Add XY data pop-up, click .

The <filename.txt> layer will display in the Table of Contents in ArcMap.

- To view the fields available **right click** on the layer name, and then select **Open Attribute Table** from the drop-down menu (see following screenshot).

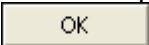


The attribute table will open.



- Scroll across the fields as necessary, or use the Select by Attributes (SQL query) to query the records (refer to ArcGIS training for instructions).
- Close the Attribute table.

You have now created a temporary layer (an *Event*). This is fine to view in this project, however if you wish to use this layer in other projects or send to colleagues, you are best to convert the layer to a Shapefile.

To save to a shapefile;

- Right click on <filename>.txt Events and select **Data** and then **Export Data..**
- In the **Export data** pop-up, navigate to the appropriate drive to save your file to, and rename the file as appropriate..
- Click the  button.

The file will export.

- Click  to add the exported data to the map as a layer.
- Finally, save your project by clicking on the save shortcut  and save to the appropriate drive.